Appendix 14
Laboratory Test Results

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
Scheduled Date	From Feb - June 2025

Remarks

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-FR01	0.00	1.00	B	1	04/07/25		1							1			1	1													EnvLab 25-10943
BH-FR01	1.00		D	2	04/07/25																										
BH-FR01	1.20	1.60	B	4	04/07/25		1	1		1	0*																				
BH-FR01	0.00	2.00	C		11/07/25																										
BH-FR01	2.00	3.50	C		11/07/25																										
BH-FR01	3.50	4.70	C		11/07/25																				1						
BH-FR01	4.70	6.30	C		11/07/25																			1		1					SS Ref: 752512
BH-FR01	6.30	7.90	C		11/07/25																				1						
BH-FR02	0.00	1.00	B	1	03/07/25		1	1																							
BH-FR02	1.00		D	2	03/07/25																										
BH-FR02	1.20	1.60	B	4	03/07/25		1	1		1	1																				
BH-FR02	0.00	2.00	C		14/07/25																										
BH-FR02	2.00	3.00	C		14/07/25																										
BH-FR02	3.00	3.60	C		14/07/25																				1						
BH-FR02	3.60	5.10	C		14/07/25																			1							
BH-FR02	5.10	6.60	C		14/07/25																						1				SS Ref: 752512
BH-FR02	6.60	8.20	C		14/07/25																				1						
BH-LG1	0.00	1.00	C		03/03/25																										rescheduled
BH-LG1	1.00	2.00	C		03/03/25																										rescheduled
BH-LG1	2.00	3.50	C		03/03/25																				1						rescheduled
BH-LG1	2.10		c																						0*						rescheduled
BH-LG1	3.50	5.00	C		03/03/25																			1							rescheduled
BH-LG1	4.40		c																					0*							*duplicate
BH-LG1	5.00	6.50	C		03/03/25																				1						rescheduled
BH-LG1	5.40		c																						0*						rescheduled
BH-LG1	6.50	7.10	C		03/03/25																				1						rescheduled
BH-LG2	0.00	1.00	B	1	07/01/25																										Logged as BH-LG1 (actually LG2)
BH-LG2	1.00		D	2	07/01/25		1	1																							
BH-LG2	1.00	1.50	B	4	07/01/25					1	1			1			1	1													EnvLab 25/04172/36
BH-LG2	0.00	2.00	C		27/02/25																				1						
BH-LG2	1.70		c																						0*						
BH-LG2	2.00	3.50	C		27/02/25																										
BH-LG2	2.70		c																								1				SS Ref: 752512
BH-LG2	3.50	5.00	C		27/02/25																			1							
BH-LG2	4.10		c																						1						
BH-LG2	5.00	6.50	C		27/02/25																										
BH-LG2	6.50	8.00	C		27/02/25																				1						
BH-LG2	6.60		c																						0*						

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-LG2	8.00	9.50	C		27/02/25																					1					
BH-LG2	9.50	11.00	C		27/02/25																										
BH-LG2	10.00		c																							1					
BH-LG2	11.00	12.50	C		27/02/25																										
BH-LG2	12.50	14.00	C		27/02/25																										
BH-LG2	14.00	15.40	C		27/02/25																										
BH-LG3	0.00	1.00	B	1	29/01/25																										
BH-LG3	1.00		D	2	29/01/25		1	1																							
BH-LG3	1.20	1.70	B	4	29/01/25					1	1			1			1	1													EnvLab 25/04172/38
BH-LG3	2.00		D	5	29/01/25		1																								
BH-LG3A	0.00	1.00	C		04/03/25																										
BH-LG3A	1.00	1.80	C		04/03/25																										
BH-LG3A	1.80	3.30	C		04/03/25																										
BH-LG3A	2.90		c																							1					
BH-LG3A	3.30	4.80	C		04/03/25																					1					
BH-LG3A	4.80	6.30	C		04/03/25																				1						
BH-LG3A	5.50		c																							0*					
BH-LG3A	6.30	7.80	C		04/03/25																					1					
BH-LG3A	7.80	9.40	C		04/03/25																					1					
BH-LG3A	9.30		c																							0*					
BH-LG3A	9.40	10.90	C		04/03/25																										
BH-LG3A	10.90	12.50	C		04/03/25																										
BH-LG4	0.00	1.00	B	1	02/01/25		1	1																							
BH-LG4	1.00		D	2	02/01/25		1	1																							
BH-LG4	1.00	1.50	B	4	02/01/25					1	1			1			1	1													EnvLab 25/04172/39
BH-LG4	0.00	2.60	C		28/02/25																										
BH-LG4	2.60	3.50	C		28/02/25																					1					
BH-LG4	3.50	5.00	C		28/02/25																										
BH-LG4	5.00	6.50	C		28/02/25																					1					
BH-LG4	6.50	8.00	C		28/02/25																				1						
BH-LG4	8.00	9.50	C		28/02/25																										
BH-LG4	9.50	11.00	C		28/02/25																					1					
BH-LG4	11.00	12.50	C		28/02/25																										
BH-LG4	12.50	14.00	C		28/02/25																					1					
BH-LG4	14.00	15.20	C		28/02/25																										
BH-LG4A	2.90		c																							0*					RC added by client - no core
BH-LG4A	3.70		c																								0*					RC added by client - no core

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Project ID	2024SO105
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Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
Scheduled Date	From Feb - June 2025

Remarks

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-LG4A	7.90		c																						0*						RC added by client - no core
BH-LG4A	10.90		c																							0*					RC added by client - no core
BH-LG5	0.00	1.00	B	1	02/01/25		1	1																							
BH-LG5	1.00		D	2	02/01/25																										
BH-LG5	1.20	1.80	B	4	02/01/25					1	1			1			1	1													EnvLab 25/04172/37
BH-LG5	2.00		D	5	02/01/25		1	1																							
BH-LG5	2.00	2.50	B	7	02/01/25																										
BH-LG5	0.00	2.00	C		26/02/25																										
BH-LG5	2.00	3.50	C		26/02/25																					1					
BH-LG5	3.40		c																							0*					
BH-LG5	3.50	5.00	C		26/02/25																										
BH-LG5	5.00	6.50	C		26/02/25																										
BH-LG5	6.50	8.00	C		26/02/25																				1						
BH-LG5	6.80		c																							1					
BH-LG5	8.00	9.50	C		26/02/25																					1					
BH-LG5	9.10		c																						1						
BH-LG5	9.50	10.90	C		26/02/25																										
BH-LG5	10.90	12.10	C		26/02/25																					1					
BH-LG6	0.00	1.00	B	1	06/01/25																										
BH-LG6	1.00		D	2	06/01/25																										
BH-LG6	2.00		D	5	06/01/25																										
BH-LG6	2.00	2.50	B	7	06/01/25									1			1	1													EnvLab 25/04172/01
BH-LG6	2.00	2.50	B	7	06/01/25		1	1		1				*			*	*					1								
BH-LG6	0.00	2.00	C		25/02/25																										
BH-LG6	2.00	3.50	C		25/02/25																										
BH-LG6	3.20		c																							0*					
BH-LG6	3.50	5.00	C		25/02/25																					1					
BH-LG6	3.60		c																									1			SS Ref: 752512
BH-LG6	5.00	6.50	C		25/02/25																										
BH-LG6	6.50	8.00	C		25/02/25																				1						
BH-LG6	7.70		c																						0*						*duplicate
BH-LG6	8.00	9.50	C		25/02/25																					1					
BH-LG6	9.50	11.00	C		25/02/25																										
BH-LG6	10.30		c																							1					
BH-LG6	11.00	12.50	C		25/02/25																					1					
BH-LG6	12.50	14.00	C		25/02/25																										
BH-LG6	14.00	15.50	C		25/02/25																										

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Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-LG7	0.00	1.70	C		05/03/25																					1					
BH-LG7	1.70	3.20	C		05/03/25																					1					
BH-LG7	2.40		c																							0*					
BH-LG7	2.60		c																								1				SS Ref: 752512
BH-LG7	3.20	4.70	C		05/03/25																				1						
BH-LG7	4.50		c																							1					
BH-LG7	4.70	6.30	C		05/03/25																					1					
BH-LG7	6.20		c																						1						
BH-LR1	0.00	1.00	B	1	30/01/25																		1								
BH-LR1	1.00		D	2	30/01/25		1	1																							
BH-LR1	1.00	1.50	B	4	30/01/25					1	1			1			1	1			check date?										EnvLab 25/04172/02
BH-LR1	3.50	5.00	C		07/03/25																					1					
BH-LR1	4.80		c																							0*					
BH-LR1	7.50		c																							1					
BH-LR1	8.00	9.50	C		07/03/25																				1						
BH-LR1	8.50		c																						1						
BH-LR1	9.50	11.00	C		07/03/25																					1					
BH-LR2	0.00	0.60	B	1	30/01/25																										
BH-LR2	0.00	1.70	C		06/03/25																					1					
BH-LR2	1.50		c																							0*					
BH-LR2	2.70		c																									1			SS Ref: 752512
BH-LR2	5.20	6.70	C		06/03/25																				1						
BH-LR2	6.20		c																							1					
BH-LR2	6.70	8.20	C		06/03/25																					1					
BH-LR2	10.20		c																						1						
BH-M01	0.00	1.00	B	1	21/07/25																										
BH-M01	1.00		D	2	21/07/25																										
BH-M01	1.00	1.50	B	4	21/07/25																										
BH-M01	2.00		D	5	21/07/25																										
BH-M01	2.00	2.50	B	7	21/07/25																										
BH-M01	0.00	2.00	C		29/07/25																										
BH-M01	2.00	3.50	C		29/07/25																										
BH-M01	3.50	5.00	C		29/07/25																					1					PL at 3.5m
BH-M01	5.00	6.50	C		29/07/25																				1						UCS at 5.2m
BH-M01	6.50	8.00	C		29/07/25																					1					PL at 6.7m
BH-M01	8.00	9.50	C		29/07/25																					1					PL at 8.4m
BH-M01	9.50	10.10	C		29/07/25																										

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Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M02	0.00	0.80	B	1	18/07/25		0*																								
BH-M02	1.00		D	2	18/07/25																										
BH-M02	1.00	1.50	B	4	18/07/25		1			1																					
BH-M02	0.00	1.00	C		28/07/25																										
BH-M02	1.00	2.00	C		28/07/25																										
BH-M02	2.00	3.50	C		28/07/25																										
BH-M02	3.50	5.00	C		28/07/25																										
BH-M02	5.00	6.50	C		28/07/25																										
BH-M02	6.50	7.10	C		28/07/25																										
BH-M02	7.10	8.40	C		28/07/25																					1					PL at 7.3m
BH-M02	8.40	10.00	C		28/07/25																				1	1					UCS at 8.6m PL at 9.9m
BH-M03	0.00	1.00	B	1	08/05/25		1					1																			EnvLab 25/07471
BH-M03	1.00		D	2	08/05/25																										
BH-M03	1.00	1.50	B	4	08/05/25		1	1																							
BH-M03	2.00		D	5	08/05/25		1	1																							
BH-M03	2.00	2.50	B	7	08/05/25					1	1			1			1	1					1									EnvLab 25/07471
BH-M03	3.00		D	8	08/05/25		1	1																							
BH-M03	3.00	3.50	B	10	08/05/25					1	1																					
BH-M03	4.00		D	11	08/05/25		1	1																							
BH-M03	4.00	4.50	B	13	08/05/25					1	1																					
BH-M03	0.00	4.70	C		16/05/25																										
BH-M03	4.70	5.00	C		16/05/25																										
BH-M03	5.00	6.50	C		16/05/25																					1					
BH-M03	6.50	8.00	C		16/05/25																										
BH-M03	8.00	8.90	C		16/05/25																										
BH-M03	8.90	9.50	C		16/05/25																					1					
BH-M03	9.50	11.00	C		16/05/25																										
BH-M03	11.00	12.00	C		16/05/25																										
BH-M03	12.00	13.50	C		16/05/25																				0*						
BH-M03A	0.00	1.00	B	1	07/05/25		1	1				1																			EnvLab 25/07471
BH-M03A	1.00		D	2	07/05/25		1	1																							
BH-M03A	1.00	1.50	B	4	07/05/25					1	1			1			1	1					1									EnvLab 25/07471
BH-M03A	0.00	1.50	C		19/05/25																										
BH-M03A	1.50	2.00	C		19/05/25																										
BH-M03A	2.00	3.50	C		19/05/25																					1					
BH-M03A	3.50	5.10	C		19/05/25																										
BH-M03A	5.10	6.50	C		20/05/25																					1					
BH-M03A	6.50	7.90	C		20/05/25																					1					
BH-M03A	7.90	9.40	C		20/05/25																										
BH-M03A	9.40	10.80	C		20/05/25																										
BH-M03A	10.80	12.40	C		20/05/25																										

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Project ID	2024SO105
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Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
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Remarks

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other					
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M04	0.00	1.00	B	1	12/05/25		1	1		1	1																				
BH-M04	1.00		D	2	12/05/25		1	1																							
BH-M04	1.00	1.50	B	4	12/05/25					1	1			1			1	1													EnvLab 25/07471
BH-M04	2.00		D	5	12/05/25		1	1																							
BH-M04	2.00	2.50	B	7	12/05/25									1			1	1					1								EnvLab 25/07471
BH-M04	3.00		D	8	12/05/25		1	1																							
BH-M04	3.00	3.50	B	10	12/05/25					1	1																				
BH-M04	0.00	3.70	C		14/05/25																										
BH-M04	3.70	5.20	C		14/05/25																					1					
BH-M04	5.20	6.70	C		14/05/25																										
BH-M04	6.70	8.00	C		14/05/25																					1					
BH-M04	8.00	8.90	C		14/05/25																										
BH-M04	8.90	10.30	C		14/05/25																				1						
BH-M04	10.30	10.80	C		14/05/25																										
BH-M04A	0.00	1.00	B	1	09/05/25		1	1		1	1																				
BH-M04A	1.00		D	2	09/05/25		1	1																							
BH-M04A	1.00	1.50	B	4	09/05/25									1			1	1					1								EnvLab 25/07471
BH-M04A	2.00		D	5	09/05/25		1	1						1			1	1													EnvLab 25/07471
BH-M04A	2.00	2.50	B	10	09/05/25					1	1																				
BH-M04A	3.00		D	11	09/05/25		1	1																							
BH-M04A	3.00	3.50	B	13	09/05/25									1			1	1					1								EnvLab 25/07471
BH-M04A	4.00		D	14	09/05/25		1																								
BH-M04A	0.00	4.00	C		15/05/25																										
BH-M04A	4.00	4.30	C		15/05/25																					1					
BH-M04A	4.30	5.00	C		15/05/25																										
BH-M04A	5.00	6.60	C		15/05/25																										
BH-M04A	6.60	7.80	C		15/05/25																				1						
BH-M04A	7.80	9.30	C		15/05/25																										
BH-M04A	9.30	10.90	C		15/05/25																										
BH-M04A	10.90	12.40	C		15/05/25																					1					

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction					Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M05	0.00	1.00	B	1	17/07/25		0*			0*																					* unsuitable
BH-M05	1.00		D	2	17/07/25		1	1				*																			moved to bag
BH-M05	1.00	1.50	B	4	17/07/25					1	1	1		1			1	1													EnvLab 25-09650
BH-M05	2.00		D	5	17/07/25		1	1																							
BH-M05	2.00	2.50	B	7	17/07/25					1	1												1								
BH-M05	3.00		D	8	17/07/25		1	1																							
BH-M05	3.00	3.50	B	10	17/07/25					1	1																				
BH-M05	4.00		D	11	17/07/25																										
BH-M05	0.00	1.00	C		21/07/25																										
BH-M05	1.00	1.50	ES		17/07/25																									1	EnvLab Ref 25-08937
BH-M05	1.00	2.50	C		21/07/25																										
BH-M05	2.50	3.50	C		21/07/25																										
BH-M05	3.50	5.00	C		21/07/25																										
BH-M05	5.00	6.50	C		21/07/25																										
BH-M05	6.50	8.00	C		21/07/25																					1					PL at 6.6m
BH-M05	8.00	9.50	C		21/07/25																					1					PL at 8.2m
BH-M05	9.50	10.10	C		21/07/25																										
BH-M05	10.10	11.70	C		21/07/25																					1					PL at 10.2m
BH-M06	0.00	1.00	B	1	16/07/25									1			1	1													EnvLab 25-10943
BH-M06	1.00		D	2	16/07/25		1																								
BH-M06	1.00	1.50	B	4	16/07/25					1	1																				
BH-M06	2.00		D	5	16/07/25		1	1																							
BH-M06	2.00	2.50	B	7	16/07/25					1	1	1																			EnvLab 25-10943
BH-M06	3.00		D	8	16/07/25		1	1																							
BH-M06	3.00	3.50	B	10	16/07/25					1	1																				
BH-M06	4.00		D	11	16/07/25		1																								
BH-M06	4.00	4.50	B	13	16/07/25					1	1																				
BH-M06	0.00	2.00	C		18/07/25																										
BH-M06	0.50	1.00	ES		16/07/25																									1	EnvLab Ref 25-08937
BH-M06	2.00	3.50	C		18/07/25																										
BH-M06	3.50	5.00	C		18/07/25																										
BH-M06	5.00	6.50	C		18/07/25																					1					PL at 6.2m
BH-M06	6.50	8.00	C		18/07/25																										
BH-M06	8.00	9.50	C		18/07/25																				1	1					PL at 8.1m UCS at 9.1m
BH-M06	9.50	10.10	C		18/07/25																										
BH-M06	10.10	11.70	C		18/07/25																										
BH-M06A	0.00	1.00	B	1	11/07/25									1			1	1													EnvLab 25-10943
BH-M06A	1.00		D	2	11/07/25																										
BH-M06A	1.00	1.50	B	4	11/07/25		1	1		1	1			1			1	1													EnvLab 25-10943
BH-M06A	2.00		D	5	11/07/25																										
BH-M06A	2.00	2.50	B	7	11/07/25		1	1		1	1	1																			EnvLab 25-10943

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete							Compaction					Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M06A	3.00		D	8	11/07/25																										
BH-M06A	3.00	3.50	B	10	11/07/25		1	1		1	1			1			1	1													EnvLab 25-10943
BH-M06A	4.00		D	11	11/07/25																										
BH-M06A	4.00	4.50	B	13	11/07/25		1	1		1	1																				
BH-M06A	5.00		D	14	11/07/25																										
BH-M06A	5.00	5.50	B	16	11/07/25		1			1	1																				
BH-M06A	0.00	2.00	C		17/07/25																										
BH-M06A	2.00	3.50	C		17/07/25																										
BH-M06A	3.50	5.00	C		17/07/25																										
BH-M06A	5.00	6.50	C		17/07/25																					1					PL at 6.1m
BH-M06A	6.50	8.10	C		17/07/25																										
BH-M06A	8.10	9.50	C		17/07/25																				1						UCS at 9m
BH-M06A	9.50	11.10	C		17/07/25																										
BH-M06A	11.10	12.50	C		17/07/25																					1					PL at 12.4m
BH-M07	0.00	1.00	B	1	26/06/25		1																								*not enough sample
BH-M07	1.00		D	2	26/06/25		1	0*				1																			EnvLab 25-09650
BH-M07	1.00	1.50	B	4	26/06/25					1	1																				
BH-M07	2.00		D	5	26/06/25		1	1																							
BH-M07	2.00	2.50	B	7	26/06/25					1	1																				
BH-M07	3.00		D	8	26/06/25		1	1																							
BH-M07	0.00	2.00	C		22/07/25																										
BH-M07	2.00	3.50	C		22/07/25																										
BH-M07	3.50	5.00	C		22/07/25																										
BH-M07	5.00	6.50	C		22/07/25																										
BH-M07	6.50	8.00	C		22/07/25																				1						UCS at 6.9m
BH-M07	8.00	9.50	C		22/07/25																					1					PL at 8.1m
BH-M07	9.50	10.10	C		22/07/25																										
BH-M07	10.10	11.70	C		22/07/25																					1					PL at 11.2m
BH-M08	0.00	1.00	B	1	09/07/25		0*																								* not suitable
BH-M08	1.00		D	2	09/07/25		1					1																			EnvLab 25-09650
BH-M08	1.00	1.50	B	4	09/07/25																										
BH-M08	2.00		D	5	09/07/25		1					1																			EnvLab 25-09650
BH-M08	2.00	2.50	B	7	09/07/25																										
BH-M08	3.00		D	8	09/07/25		1	1						1			1	1													EnvLab 25-09650
BH-M08	3.00	3.50	B	10	09/07/25					1	1																				
BH-M08	4.00		D	11	09/07/25		1	1																							
BH-M08	4.00	4.50	B	13	09/07/25					1	1																				
BH-M08	0.00	2.00	C		23/07/25																										
BH-M08	0.50	1.00	ES		09/07/25																									1	EnvLab Ref 25-08937
BH-M08	2.00	3.50	C		23/07/25																										
BH-M08	3.50	5.00	C		23/07/25																										

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction					Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M08	5.00	6.20	C		23/07/25																									
BH-M08	6.20	7.80	C		23/07/25																					1					PL at 6.7m
BH-M08	7.80	9.40	C		23/07/25																					1					PL at 8.2m
BH-M08	9.40	10.10	C		23/07/25																									
BH-M08	10.10	11.70	C		23/07/25																					1					PL at 11m
BH-M09	0.00	1.00	B	1	07/07/25																									
BH-M09	1.00		D	2	07/07/25		1																							
BH-M09	1.00	1.50	B	4	07/07/25					1																				
BH-M09	2.00		D	5	07/07/25		1					1																			EnvLab 25-09650
BH-M09	2.00	2.50	B	7	07/07/25																									
BH-M09	3.00		D	8	07/07/25		1					1																			EnvLab 25-09650
BH-M09	3.00	3.50	B	10	07/07/25																									
BH-M09	4.00		D	11	07/07/25		1	1																						
BH-M09	4.00	4.50	B	13	07/07/25					1	1																			
BH-M09	5.00		D	14	07/07/25		1	1																						
BH-M09	0.00	2.00	C		24/07/25																									
BH-M09	2.00	3.50	C		24/07/25																									
BH-M09	3.50	5.00	C		24/07/25																					1					PL at 4.8m
BH-M09	5.00	6.40	C		24/07/25																									
BH-M09	6.40	8.00	C		24/07/25																									
BH-M09	8.00	9.50	C		24/07/25																				1						UCS at 8.1m
BH-M09	9.50	10.10	C		24/07/25																									
BH-M09	10.10	11.60	C		24/07/25																					1					PL at 11m
BH-M10	0.00	1.00	B	1	08/07/25		0*			1																				
BH-M10	1.00		D	2	08/07/25																									
BH-M10	1.00	1.50	B	4	08/07/25																									*not enough sample
BH-M10	2.00		D	5	08/07/25		1	0*				1																			EnvLab 25-09650
BH-M10	2.00	2.50	B	7	08/07/25					1	1																			
BH-M10	3.00		D	8	08/07/25		1	1																						
BH-M10	3.00	3.50	B	10	08/07/25					1	1																			
BH-M10	4.00		D	11	08/07/25		1																							
BH-M10	4.00	4.50	B	13	08/07/25					1																				
BH-M10	5.00		D	14	08/07/25		1																							
BH-M10	0.50	1.00	ES		08/07/25																								1	EnvLab Ref 25-08937
BH-M10	0.00	2.00	C		25/07/25																									
BH-M10	2.00	3.50	C		25/07/25																									
BH-M10	3.50	5.00	C		25/07/25																									
BH-M10	5.00	6.50	C		25/07/25																					1					PL at 6.4m
BH-M10	6.50	8.10	C		25/07/25																									
BH-M10	8.10	9.50	C		25/07/25																				1						UCS = 8.2m
BH-M10	9.50	10.10	C		25/07/25																									

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M10	10.10	11.60	C		25/07/25																					1					PL at 11.1m
BH-M13	0.00	0.60	B	1	02/07/25																										
BH-M13	0.00	0.70	C		10/07/25																										
BH-M13	0.70	2.10	C		10/07/25																										
BH-M13	2.10	3.60	C		10/07/25																					1		1			SS Ref: 752512
BH-M13	3.60	5.10	C		10/07/25																										
BH-M13	5.10	6.60	C		10/07/25																					1					
BH-M13	6.60	7.00	C		10/07/25																										
BH-M13	7.00	8.50	C		10/07/25																				1						
BH-M13A	0.00	0.80	B	1	02/07/25																										
BH-M14	0.00	1.00	B	1	01/07/25																										
BH-M14	1.00		D	2	01/07/25																										
BH-M14	1.00	1.50	B	4	01/07/25		1	1		1	1			1			1	1													EnvLab 25/09020
BH-M14	2.00		D	5	01/07/25		1	1																							
BH-M14	2.00	2.50	B	7	01/07/25																										
BH-M14	3.00		D	8	01/07/25		1	1																							
BH-M14	3.00	3.50	B	10	01/07/25					1	1																				
BH-M14	4.00		D	11	01/07/25																										
BH-M14	0.50	1.00	ES		01/07/25																									1	EnvLab Ref 25-08937
BH-M14	0.00	2.00	C		15/07/25																					1	1				SS Ref: 752512
BH-M14	2.00	3.50	C		15/07/25																										
BH-M14	3.50	6.50	C		15/07/25																				1						
BH-M14	6.50	8.10	C		15/07/25																										
BH-M14	8.10	9.50	C		15/07/25																					1					
BH-M14	9.50	11.00	C		15/07/25																										
BH-M14	11.00	12.50	C		15/07/25																										
BH-M15	0.00	1.00	B	1	27/03/25		1			1																					
BH-M15	1.00		D	2	27/03/25		1							1			1	1													EnvLab 25/05766/01
BH-M15	1.00	1.50	B	4	27/03/25					1																					
BH-M15	2.00		D	5	27/03/25		1																								
BH-M15	2.00	2.50	B	7	27/03/25					1																					
BH-M15	3.00		D	8	27/03/25		1							1			1	1													EnvLab 25/05766/02
BH-M15	3.00	3.50	B	10	27/03/25					1																					
BH-M15	4.00		D	11	27/03/25		1																								
BH-M15	4.00	4.50	B	13	27/03/25					1																					
BH-M15	0.00	4.50	C		01/05/25																										
BH-M15	4.50	5.00	C		01/05/25																										
BH-M15	5.00	6.30	C		01/05/25																										

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M15	6.30	7.80	C		01/05/25																					1					
BH-M15	7.80	9.30	C		01/05/25																										
BH-M15	9.30	10.90	C		01/05/25																				1						
BH-M15	10.90	12.40	C		02/05/25																										
BH-M15	12.40	13.90	C		02/05/25																					1					
BH-M15	13.90	15.60	C		02/05/25																					1					
BH-M15	15.60	17.00	C		02/05/25																										
BH-M15	17.00	18.50	C		02/05/25																										
BH-M16	0.00	1.00	B	1	31/03/25		1			1																					
BH-M16	1.00		D	2	31/03/25		1							1			1	1													EnvLab 25/05766/03
BH-M16	1.00	1.50	B	4	31/03/25					1																					
BH-M16	2.00		D	5	31/03/25		1																								
BH-M16	2.00	2.50	B	7	31/03/25					1																					
BH-M16	3.00		D	8	31/03/25		1	1																							
BH-M16	3.00	3.50	B	10	31/03/25					1	1																				
BH-M16	4.00		D	11	31/03/25		1	1																							
BH-M16	4.00	4.50	B	13	31/03/25																										
BH-M16	5.00		D	14	31/03/25		1	0*																							
BH-M16	5.00	5.50	B	16	31/03/25					1	0*																				
BH-M16	6.00		D	17	31/03/25		0*	0*																							* not suitable- gravel
BH-M16	6.50	6.90	B	19	31/03/25		1	0*		1	0*																				
BH-M16	0.00	6.90	C		30/04/25																										
BH-M16	6.90	7.80	C		30/04/25																										
BH-M16	7.80	9.30	C		30/04/25																										
BH-M16	9.30	10.60	C		30/04/25																					1					
BH-M16	10.60	11.10	C		30/04/25																										
BH-M16	11.10	12.60	C		30/04/25																					1					
BH-M16	12.60	14.10	C		30/04/25																										
BH-M16	14.10	15.60	C		30/04/25																				1						
BH-M16	15.60	17.00	C		30/04/25																										
BH-M16	17.00	18.50	C		30/04/25																										
BH-M16	18.50	20.00	C		30/04/25																										
BH-M17	0.00	1.00	B	1	27/06/25																										
BH-M17	1.00		D	2	27/06/25		1							1			1	1													EnvLab 25/09020
BH-M17	1.00	1.50	B	4	27/06/25					1	0*																				
BH-M17	2.00		D	5	27/06/25		1																1								
BH-M17	2.00	2.50	B	7	27/06/25																										
BH-M17	3.00		D	8	27/06/25		1							1			1	1													EnvLab 25/09020
BH-M17	3.00	3.50	B	10	27/06/25					1	0*																				
BH-M17	4.00		D	11	27/06/25		1																								
BH-M17	4.00	4.50	B	13	27/06/25					1	0*																				

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
Scheduled Date	From Feb - June 2025

Remarks

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M17	5.00		D	14	27/06/25		1																								
BH-M17	5.00	5.50	B	16	27/06/25																										
BH-M17	6.00		D	17	27/06/25		1																								
BH-M17	6.50	7.00	B	19	27/06/25					1	0*																				
BH-M17	7.00		D	20	27/06/25																										
BH-M17A	0.00	1.00	B	1	30/06/25		1	1		1	1			1			1	1													EnvLab 25/09020
BH-M17A	1.00		D	2	30/06/25		1																								
BH-M17A	1.00	1.50	B	4	30/06/25					1	0*			1			1	1					1								EnvLab 25/09020
BH-M17A	2.00		D	5	30/06/25		1																								
BH-M17A	2.00	2.50	B	7	30/06/25																										
BH-M17A	3.00		D	8	30/06/25		1																								
BH-M17A	3.00	3.50	B	10	30/06/25					1	1																				
BH-M17A	4.00		D	11	30/06/25		1																								
BH-M17A	4.00	4.50	B	13	30/06/25					1	0*																				
BH-M17A	5.00		D	14	30/06/25		1																								
BH-M17A	5.00	5.50	B	16	30/06/25																										
BH-M17A	6.00		D	17	30/06/25		1																								
BH-M17A	6.50	7.00	B	19	30/06/25					1	0*																				
BH-M17A	7.00		D	20	30/06/25																										
BH-M19	0.00	2.00	C		16/06/25																										
BH-M19	2.00	3.50	C		16/06/25																										
BH-M19	3.50	5.00	C		16/06/25																										
BH-M19	5.00	6.00	C		16/06/25																					1					
BH-M19	6.00	7.50	C		16/06/25																					1					
BH-M20	0.00	1.00	B	1	01/04/25		1	1																							
BH-M20	1.00		D	2	01/04/25		1	1						1			1	1													EnvLab 25/05766/04
BH-M20	1.00	1.50	B	4	01/04/25					1	1																				
BH-M20	2.00		D	5	01/04/25		1	1																							
BH-M20	2.00	2.50	B	7	01/04/25					1	1																				
BH-M20	3.00		D	8	01/04/25		1	1																							
BH-M20	3.00	3.50	B	10	01/04/25					1	1																				
BH-M20	4.00		D	11	01/04/25		1	1																							
BH-M20	4.00	4.50	B	13	01/04/25																										
BH-M20	5.00		D	14	01/04/25		1	1																							
BH-M20	5.00	5.50	B	16	01/04/25					1	1																				
BH-M20	6.00		D	17	01/04/25		1	1																							
BH-M20	6.50	6.80	B	19	01/04/25																										
BH-M20	0.00	6.00	C		28/04/25																										
BH-M20	6.00	7.20	C		28/04/25																										
BH-M20	7.20	8.70	C		28/04/25																										
BH-M20	8.70	10.00	C		28/04/25																										

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete							Compaction					Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M20	10.00	11.00	C		28/04/25																										
BH-M20	11.00	12.50	C		28/04/25																										
BH-M20A	0.00	1.00	B	1	16/06/25																										
BH-M20A	1.00		D	2	16/06/25		1	1																							
BH-M20A	1.00	1.50	B	4	16/06/25					1	1			1			1	1													EnvLab 25/09020
BH-M20A	2.00		D	5	16/06/25		1																								
BH-M20A	0.00	2.00	C		17/06/25																										
BH-M20A	2.00	3.50	C		17/06/25																										
BH-M20A	3.50	5.00	C		17/06/25																										
BH-M20A	5.00	6.50	C		17/06/25																										
BH-M20A	6.50	8.10	C		17/06/25																										
BH-M20B	0.00	1.00	B	1	16/06/25		1	1															1								
BH-M20B	1.00		D	2	16/06/25		1	1						1			1	1													EnvLab 25/09020
BH-M20B	1.00	1.50	B	4	16/06/25					1	1																				
BH-M20B	2.00		D	5	16/06/25		1							1			1	1													EnvLab 25/09020
BH-M20B	2.00	2.50	B	7	16/06/25					1	1																				
BH-M20B	3.00		D	8	16/06/25		1																								
BH-M20B	3.00	3.50	B	10	16/06/25																										
BH-M20B	4.00		D	11	16/06/25		1																								
BH-M20B	4.00	4.50	B	13	16/06/25					1	1																				
BH-M20B	5.00		D	14	16/06/25		1																								
BH-M20B	5.00	5.50	B	16	17/06/25					1	1																				
BH-M20B	6.00		D	17	17/06/25		1																								
BH-M20B	6.50	7.00	B	19	17/06/25					1	1																				
BH-M20B	7.00		D	20	17/06/25																										
BH-M21	0.00	2.00	C		24/04/25																										
BH-M21	2.00	3.50	C		24/04/25																										
BH-M21	3.50	5.00	C		24/04/25																										
BH-M21	5.00	6.50	C		24/04/25																										
BH-M21	6.50	8.00	C		24/04/25																										
BH-M22	0.00	1.00	B	1	02/04/25		1	1				1		1			1	1													EnvLab 25/05766/05
BH-M22	1.00		D	2	02/04/25		1	1				1		1			1	1													EnvLab 25/05766/06
BH-M22	1.00	1.50	B	4	02/04/25					1	0*																				
BH-M22	2.00		D	5	02/04/25		1	1																							
BH-M22	2.00	2.50	B	7	02/04/25					1	1																				
BH-M22	3.00		D	8	02/04/25		1	1																							
BH-M22	3.00	3.50	B	10	02/04/25																										
BH-M22	4.00		D	11	02/04/25		1	1																							

0 = test scheduled,
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0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M22	4.00	4.50	B	13	02/04/25					1	1																				
BH-M22	0.50	1.00	ES	ES	02/04/25																									1	EnvLabRef 25/04007
BH-M22	0.00	5.00	C		24/04/25																										
BH-M22	5.00	6.50	C		24/04/25																										
BH-M22	6.50	8.00	C		24/04/25																										
BH-M22	8.00	9.50	C		24/04/25																										
BH-M22	9.50	11.00	C		24/04/25																										
BH-M22	11.00	12.50	C		24/04/25																										
BH-M22	12.50	14.00	C		24/04/25																										
BH-M22	14.00	15.50	C		24/04/25																					1					
BH-M23	0.00	1.00	B	1	03/04/25		1			1																					
BH-M23	1.00		D	2	03/04/25		1							1			1	1													EnvLab 25/05766/07
BH-M23	1.00	1.50	B	4	03/04/25					1																					
BH-M23	2.00		D	5	03/04/25		1							1			1	1													EnvLab 25/05766/08
BH-M23	2.00	2.50	B	7	03/04/25					1																					
BH-M23	3.00		D	8	03/04/25		1																								
BH-M23	3.00	3.50	B	10	03/04/25					1																					
BH-M23	4.00		D	11	03/04/25		1																								
BH-M23	4.00	4.50	B	13	03/04/25					1																					
BH-M23	0.00	4.80	C		22/04/25																										
BH-M23	4.80	6.50	C		22/04/25																										
BH-M23	6.50	8.00	C		22/04/25																					1					
BH-M23	8.00	9.50	C		22/04/25																										
BH-M23	9.50	11.00	C		22/04/25																				1						
BH-M23	11.00	12.50	C		22/04/25																										
BH-M23	12.50	14.00	C		22/04/25																										
BH-M23	14.00	15.00	C		23/04/25																										
BH-M23	15.00	15.90	C		23/04/25																										
BH-M23	15.90	17.00	C		23/04/25																					1					
BH-M24	0.00	1.00	B	1	17/06/25		1					1																			EnvLab 25/09020
BH-M24	1.00		D	2	17/06/25		1					1																			EnvLab 25/09020
BH-M24	1.00	1.50	B	4	17/06/25																										
BH-M24	1.00		ES		17/06/25																									1	EnvLabRef 25/06993
BH-M24	2.00		D	5	18/06/25		1					1																			EnvLab 25/09020
BH-M24	2.00	2.50	B	7	18/06/25																										
BH-M24	3.00		D	8	18/06/25		1	1				1																			EnvLab 25/09020
BH-M24	3.00	3.50	B	10	18/06/25					1	0*																				
BH-M24	4.00		D	11	18/06/25		1	1																							
BH-M24	4.00	4.50	B	13	18/06/25																										
BH-M24	5.00		D	14	18/06/25		1	1				1																			EnvLab 25/09020
BH-M24	5.00	5.50	B	16	18/06/25					1	0*																				
BH-M24	6.00		D	17	18/06/25		1																								

0 = test scheduled,
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0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete							Compaction					Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M25	0.00	1.00	B	1	19/06/25		1	1																							
BH-M25	1.00		D	2	19/06/25		1	1						1			1	1													EnvLab 25/09020
BH-M25	1.00	1.50	B	4	19/06/25					1	0*																				
BH-M25	2.00		D	5	19/06/25		1	1																							
BH-M25	2.00	2.50	B	7	19/06/25																		1								
BH-M25	3.00		D	8	19/06/25		1	1																							
BH-M25	3.00	3.50	B	10	19/06/25					1	1																				
BH-M25	4.00		D	11	19/06/25		1	1																							
BH-M25	4.00	4.50	B	13	19/06/25																										
BH-M25	5.00		D	14	19/06/25		1	1																							
BH-M25	5.00	5.50	B	16	19/06/25					1	0*																				
BH-M25	6.00		D	17	20/06/25		1																								
BH-M25	6.50	7.00	B	19	20/06/25					1	0*																				
BH-M26	0.00	1.00	B	1	25/06/25																										
BH-M26	1.00		D	2	25/06/25		1	0*				1																			EnvLab 25/09020
BH-M26	1.00	1.50	B	4	25/06/25					1	1																				
BH-M26	0.00	2.00	C		08/07/25																										
BH-M26	2.00	3.50	C		08/07/25																										
BH-M26	3.50	5.00	C		08/07/25																										
BH-M26	5.00	6.50	C		08/07/25																					1					
BH-M26	6.50	8.00	C		08/07/25																										
BH-M26	8.00	9.50	C		08/07/25																										
BH-M26	9.50	10.40	C		08/07/25																										
BH-M26	10.40	12.00	C		08/07/25																										
BH-M26	12.00	12.60	C		08/07/25																					1					
BH-M26	12.60	14.20	C		08/07/25																										
BH-M26	14.20	15.60	C		08/07/25																					1					
BH-M26	15.60	17.20	C		08/07/25																										
BH-M26	17.20	18.60	C		08/07/25																										
BH-M27	0.00	1.00	B	1	26/06/25																										
BH-M27	1.00		D	2	26/06/25		1	0*				1																			EnvLab 25/09020
BH-M27	1.00	1.50	B	4	26/06/25					1	0*																				*Not enough Sample
BH-M27	2.00		D	5	26/06/25		1	1																							
BH-M27	2.00	2.50	B	7	26/06/25					1	1																				
BH-M27	3.00		D	8	26/06/25		1	1																							
BH-M27	3.00	3.50	B	10	26/06/25					1																					
BH-M27	0.00	2.00	C		09/07/25																										
BH-M27	2.00	3.50	C		09/07/25																										
BH-M27	3.50	5.00	C		09/07/25																					1					
BH-M27	5.00	6.50	C		09/07/25																										
BH-M27	6.50	7.70	C		09/07/25																										
BH-M27	7.70	9.30	C		09/07/25																				1						

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0* = sample not suitable for scheduled test

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
Scheduled Date	From Feb - June 2025

Remarks

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other					
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M27	9.30	10.90	C		09/07/25																										
BH-M27	10.90	12.40	C		09/07/25																					1					
BH-M28	0.00	2.00	C		11/06/25																										
BH-M28	2.00	3.50	C		11/06/25																										
BH-M28	3.50	5.00	C		11/06/25																										
BH-M28	5.00	6.50	C		11/06/25																					1					
BH-M28	6.50	8.00	C		11/06/25																				1	1					
BH-M29	0.00	2.00	C		11/06/25																										
BH-M29	2.00	3.50	C		11/06/25																										
BH-M29	3.50	5.00	C		11/06/25																										
BH-M29	5.00	6.50	C		11/06/25																										
BH-M29	6.50	8.00	C		11/06/25																										
BH-M30	0.00	2.00	C		10/06/25																										
BH-M30	2.00	3.50	C		10/06/25																										
BH-M30	3.50	5.00	C		10/06/25																										
BH-M30	5.00	6.50	C		10/06/25																					1					
BH-M30	6.50	8.00	C		10/06/25																					1					
BH-M31	0.00	2.00	C		10/06/25																										
BH-M31	2.00	3.50	C		10/06/25																										
BH-M31	3.50	5.00	C		10/06/25																										
BH-M31	5.00	6.50	C		10/06/25																										
BH-M32	0.00	2.00	C		09/06/25																										
BH-M32	2.00	3.50	C		09/06/25																										
BH-M32	3.50	5.00	C		09/06/25																										
BH-M32	5.00	6.50	C		09/06/25																										
BH-M32	6.50	8.00	C		09/06/25																										
BH-M33	0.00	2.00	C		05/06/25																										
BH-M33	2.00	3.50	C		05/06/25																										
BH-M33	3.50	5.00	C		05/06/25																										
BH-M33	5.00	6.50	C		05/06/25																										
BH-M33	6.50	8.20	C		05/06/25																										
BH-M34	0.00	2.00	C		03/06/25																										
BH-M34	2.00	3.50	C		03/06/25																										
BH-M34	3.50	4.50	C		03/06/25																					1					PL at 4.3m
BH-M34	4.50	6.00	C		03/06/25																										
BH-M34	6.00	7.20	C		03/06/25																					1					PL at 7m
BH-M34	7.20	7.90	C		03/06/25																					0*					PL at 7.8m

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other					
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0	
BH-M35	0.00	2.00	C		04/06/25																											
BH-M35	2.00	3.20	C		04/06/25																											
BH-M35	3.20	4.70	C		04/06/25																					0*						PL at 4.5m
BH-M35	4.70	6.20	C		04/06/25																					1						PL at 6.1m
BH-M35	6.20	7.00	C		04/06/25																											
BH-M35	7.00	8.40	C		04/06/25																				1							UCS at 8.1m
BH-M36	0.00	1.20	C		30/05/25																											
BH-M36	1.20	2.20	C		30/05/25																											tested already
BH-M36	1.40		c		30/05/25																					1						
BH-M36	1.60		c		30/05/25																						1					SS Ref: 752512
BH-M36	2.20	3.70	C		30/05/25																											
BH-M36	2.70		c		30/05/25																				1							
BH-M36	3.70	5.20	C		30/05/25																											
BH-M36	5.20	6.10	C		30/05/25																											
BH-M36	5.30		c		30/05/25																					1						
BH-M37	0.00	2.00	C		29/05/25																											
BH-M37	2.00	3.50	C		29/05/25																											
BH-M37	3.50	5.00	C		29/05/25																											
BH-M37	5.00	6.50	C		29/05/25																											
BH-M37	6.50	8.00	C		29/05/25																											
BH-M38	0.00	2.00	C		05/06/25																											
BH-M38	2.00	3.50	C		05/06/25																											
BH-M38	3.50	5.00	C		05/06/25																											
BH-M38	5.00	6.50	C		05/06/25																											
BH-M38	6.50	8.00	C		05/06/25																											
BH-M38	8.00	9.50	C		05/06/25																											
BH-M39	0.00	2.00	C		21/05/25																											
BH-M39	2.00	3.50	C		21/05/25																					1						
BH-M39	3.50	5.00	C		21/05/25																				1	1						
BH-M39	5.00	6.10	C		21/05/25																											
BH-M40	0.00	1.70	C		22/05/25																							1				SS Ref: 752512
BH-M40	1.70	2.90	C		22/05/25																											
BH-M40	2.90	3.50	C		22/05/25																											
BH-M40	3.50	5.00	C		22/05/25																					1						
BH-M40	5.00	6.50	C		22/05/25																				1	1						

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0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction					Rock		Other					
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-M41	0.00	2.30	C		23/05/25																										
BH-M41	2.30	3.20	C		23/05/25																										
BH-M41	3.20	4.20	C		23/05/25																					1					
BH-M41	4.20	4.80	C		23/05/25																										
BH-M41	4.80	6.40	C		23/05/25																				1	1					
BH-M42	0.00	1.80	C		27/05/25																										
BH-M42	1.80	3.30	C		27/05/25																					1					
BH-M42	3.30	4.90	C		27/05/25																					2					
BH-M42	4.90	5.70	C		27/05/25																					*					
BH-M43	0.00	2.00	C		26/05/25																					1	1				SS Ref: 752512
BH-M43	2.00	3.50	C		26/05/25																				1						
BH-M43	3.50	5.00	C		26/05/25																										
BH-M43	5.00	6.10	C		26/05/25																					1					
BH-R1	0.00	2.00	C		07/03/25																										
BH-R1	2.00	3.50	C		07/03/25																										
BH-R1	5.00	6.60	C		07/03/25																										
BH-R1	6.60	8.00	C		07/03/25																										
BH-R1	11.00	12.10	C		07/03/25																										
BH-R1	0.00	1.00	B	1	04/04/25		1																						1		
BH-R1	1.00		D	2	04/04/25		1							0*			0*	0*													label mix-up delayed analysis - disposed in Envirolab
BH-R1	1.00	1.50	B	4	04/04/25					1																					
BH-R1	2.00		D	5	04/04/25		1																								
BH-R1	2.00	2.50	B	7	04/04/25					1													1								
BH-R1	3.00		D	8	04/04/25		1							0*			0*	0*													label mix-up delayed analysis - disposed in Envirolab
BH-R1	3.00	3.50	B	10	04/04/25					1																					
BH-R1	4.00		D	11	04/04/25		1																								
BH-R1	4.00	4.50	B	13	04/04/25					1																					
BH-R2	1.70	2.30	C		06/03/25																										
BH-R2	2.30	3.60	C		06/03/25																										
BH-R2	3.60	5.20	C		06/03/25																										
BH-R2	8.20	9.70	C		06/03/25																										
BH-R2	9.70	11.30	C		06/03/25																										
BH-R2	11.30	12.40	C		06/03/25																										
BH-R2	0.00	1.00	B	1	07/04/25		1																						1		

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Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-R2	1.00		D	2	07/04/25		1							0*			0*	0*													label mix-up delayed analysis - disposed in Envirolab
BH-R2	1.00	1.50	B	4	07/04/25					1																					
BH-R2	2.00		D	5	07/04/25		1																								
BH-R2	2.00	2.50	B	7	07/04/25					1														1							
BH-R2	3.00		D	8	07/04/25		1																								
BH-R2	3.00	3.50	B	10	07/04/25					1																					
BH-R2	4.00		D	11	07/04/25		0*																								
BH-T01	0.00	1.00	B	1	09/04/25																										
BH-T01	1.00		D	2	09/04/25		1			1																					
BH-T01	1.00	1.50	B	4	09/04/25																										
BH-T01	2.00		D	5	09/04/25		1	1		1	1			1			1	1													EnvLab 25/05766/12
BH-T01	2.00	2.50	B	7	10/04/25																										
BH-T01	3.00		D	8	10/04/25		1	0*		1	1																				* not enough left
BH-T01	0.00	3.00	C		14/04/25																										
BH-T01	3.00	4.50	C		14/04/25					1																					
BH-T01	4.50	6.00	C		14/04/25																										
BH-T01	6.00	7.10	C		14/04/25																										
BH-T01	7.10	8.00	C		14/04/25					1																					
BH-T01	8.00	9.50	C		14/04/25																										
BH-T01	9.50	11.00	C		14/04/25																					1					
BH-T01	11.00	12.50	C		15/04/25																				1						
BH-T01	12.50	14.00	C		15/04/25																										
BH-T01	4.60		c																							1					
BH-T01	10.60		c																							0*					
BH-T01	11.20		c																						0*						*duplicate
BH-T02	0.00	1.00	B	1	08/04/25		1			1																					
BH-T02	1.00		D	2	08/04/25		1							1			1	1													EnvLab 25/05766/13
BH-T02	1.00	1.50	B	4	08/04/25					1																					
BH-T02	2.00		D	5	08/04/25		1																								
BH-T02	2.00	2.50	B	7	08/04/25					1																					
BH-T02	3.00		D	8	08/04/25		1	1						1			1	1													EnvLab 25/05766/14
BH-T02	3.00	3.50	B	10	08/04/25					1	1																				
BH-T02	4.00		D	11	08/04/25		1	1																							
BH-T02	4.00	4.50	B	13	08/04/25					1	1																				
BH-T02	5.00		D	14	08/04/25		1																								
BH-T02	5.00	5.50	B	16	09/04/25					1																					
BH-T02	0.00	3.00	C		11/04/25																										
BH-T02	3.00	5.00	C		11/04/25					1																					
BH-T02	5.00	6.50	C		11/04/25																										

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Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-T02	6.50	8.00	C		11/04/25					1																					
BH-T02	8.00	9.40	C		11/04/25																										
BH-T02	9.40	10.70	C		11/04/25																				1						
BH-T02	10.70	12.10	C		11/04/25																				1						
BH-T02	4.90		c																							1					
BH-T02	5.20		c																									1			SS Ref: 752512
BH-T02	8.20		c																						1						
BH-T02	10.30		c																							0*					
BH-T03	0.00	1.30	C		15/04/25					1																					
BH-T03	1.30	2.80	C		15/04/25																										
BH-T03	2.80	4.40	C		15/04/25																					1	1				In BHP: 2.8-4.4m
BH-T03	4.40	5.90	C		15/04/25																										
BH-T03	5.90	7.40	C		15/04/25																				1						
BH-T03	7.40	8.90	C		15/04/25																										
BH-T03	8.90	10.40	C		15/04/25																					1					
BH-T03	10.40	11.90	C		16/04/25																										
BH-T03	11.90	13.40	C		16/04/25																										
BH-T03	13.40	15.00	C		16/04/25																										
BH-T03	1.40		c																							0*					
BH-T03	2.40		c																								0*				added by client - all used previously
BH-T03	2.60		c																						0*						
BH-T03	6.70		c																							0*					used for UCS
BH-T03	9.50		c																							0*					
BH-T04	0.00	1.90	C		16/04/25																										
BH-T04	1.90	3.00	C		16/04/25																					1					
BH-T04	3.00	4.50	C		16/04/25																							1			In BHP: 3.0-4.5m
BH-T04	4.50	6.00	C		16/04/25																										
BH-T04	6.00	7.60	C		17/04/25																				1						
BH-T04	7.60	8.90	C		17/04/25																					1					
BH-T04	8.90	10.10	C		17/04/25																										
BH-T04	1.00		c																							0*					
BH-T04	1.70		c																									0*			added by client - all used previously
BH-T04	2.50		c																						0*						
BH-T04	4.00		c																									0*			
BH-T04	5.60		c																							0*					all used in BHP

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Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
BH-WH01	0.00	2.50	C		11/03/25																										
BH-WH01	2.50	3.00	C		11/03/25																										
BH-WH01	3.00	4.00	C		11/03/25																										
BH-WH01	4.00	4.80	C		11/03/25																										
BH-WH01	4.80	5.70	C		11/03/25																										
BH-WH01	5.70	6.90	C		11/03/25																										
BH-WH01	6.90	7.80	C		11/03/25																					1					
BH-WH01	7.80	9.30	C		11/03/25																				1						
BH-WH01	9.30	10.90	C		11/03/25																					1					
BH-WH01	10.90	12.10	C		11/03/25																										
BH-WH02	0.00	1.00	B	1	05/02/25																										
BH-WH02	1.00		D	2	05/02/25		1																								
BH-WH02	0.00	0.50	C		25/03/25																										
BH-WH02	0.50	2.00	C		25/03/25																										
BH-WH02	2.00	3.50	C		25/03/25																										
BH-WH02	3.50	4.70	C		25/03/25																										
BH-WH02	4.70	5.80	C		25/03/25																					1					
BH-WH02	5.80	7.40	C		25/03/25																				1			1			SS Ref: 752512
BH-WH02	7.40	8.90	C		25/03/25																					1					
BH-WH02A	0.00	1.00	B	1	05/02/25																		1								
BH-WH02A	1.00		D	2	05/02/25		1	1	1	1				1			1	1													EnvLab 25/04172/03
BH-WH02A	1.00	1.50	B	4	05/02/25																										
BH-WH02A	2.00		D	5	05/02/25		1																								
BH-WH02A	2.00	2.50	B	7	05/02/25					1																					
BH-WH1	0.00	1.00	B	1	04/02/25																										
BH-WH1	1.00		D	2	04/02/25		1																								
BH-WH1	1.50	1.90	B	4	04/02/25					1	1			1			1	1					1								EnvLab 25/04172/04
BH-WH1	2.00		D	5	04/02/25		1	1																							
BH-WH1	2.00	2.50	B	7	05/02/25																										
ST-TEL-09	0.50	1.00	ES		23/04/25																								1		EnvLabRef 25/04883
ST-TEL-13	0.50	1.00	ES		01/05/25																								1		EnvLabRef 25/04883
ST-TEL44	0.50	0.60	ES		16/06/25																								1		EnvLabRef: 25/06993
ST-WC-07	0.50	1.00	ES		24/04/25																								1		EnvLabRef 25/04883
STWM16	1.50	1.60	ES		27/05/25																								1		EnvLab Ref: 25/06298
STWM22	1.70	1.80	ES		28/05/25																								1		EnvLab Ref: 25/06298
ST-WM-45	0.80	1.00	ES		24/04/25																								1		EnvLabRef 25/04883
ST-WM-83	0.50	0.60	ES		09/06/25																								1		EnvLabRef: 25/06993

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Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-LG1	0.50	1.00	B	1	06/02/25					1	1			1			1	1													EnvLab 25/04172/05
TP-LG1	0.50	1.00	D	2	06/02/25		1	1																							
TP-LG1	0.50	1.00	ES		06/02/25																								1	EnvLabRef 25/01492/1
TP-LG1	1.50	2.00	B	3	06/02/25					1	1			1			1	1													EnvLab 25/04172/06
TP-LG1	1.50	2.00	D	4	06/02/25		1	1																							
TP-LG1	2.50	3.00	B	5	06/02/25					1	1																				
TP-LG1	2.50	3.00	D	6	06/02/25		1	1																							
TP-LG2	0.50	1.00	B	1	30/01/25					1	1	1		1			1	1													EnvLab 25/04172/08
TP-LG2	0.50	1.00	D	2	30/01/25		1	1																							
TP-LG2	0.50	1.00	ES		30/01/25																								1	EnvLabRef 25/01249/1
TP-LG2	1.80	2.20	B	3	30/01/25					1	1												1								
TP-LG2	1.80	2.20	D	4	30/01/25		1	1																							
TP-LG3	0.30	0.60	B	1	04/02/25																										
TP-LG3	0.30	0.60	D	2	04/02/25		1	1																							
TP-LG4	0.50	1.00	B	1	30/01/25					1	1			1			1	1													EnvLab 25/04172/09
TP-LG4	0.50	1.00	D	2	30/01/25		1	1																							
TP-LG4	0.50	1.00	ES		30/01/25																								1	EnvLabRef 25/01249/2
TP-LG4	1.50	2.00	B	3	30/01/25					1	1			1			1	1													EnvLab 25/04172/10
TP-LG4	1.50	2.00	D	4	30/01/25		1	1																							
TP-LG5	0.50	1.00	B	1	04/02/25					1	1																				
TP-LG5	0.50	1.00	D	2	04/02/25		1	1																							
TP-LG5	1.40	1.80	B	3	04/02/25					1	1													1							
TP-LG5	1.40	1.80	D	4	04/02/25		1	1						1			1	1													EnvLab 25/04172/11
TP-LG5	2.00	2.40	B	5	04/02/25					1	1																				
TP-LG5	2.00	2.40	D	6	04/02/25		1	1																							
TP-LG6	0.40	0.80	B	1	06/02/25					1	1			1			1	1													EnvLab 25/04172/12
TP-LG6	0.40	0.80	D	2	06/02/25		1	1																							
TP-LG6	0.40	0.80	ES		06/02/25																								1	EnvLabRef 25/01492/2
TP-LG6	0.90	1.10	B	3	06/02/25																										
TP-LG6	0.90	1.10	D	4	06/02/25																										
TP-LG7	0.50	1.00	B	1	30/01/25					1	1																				
TP-LG7	0.50	1.00	D	2	30/01/25		1	1						1			1	1													EnvLab 25/04172/13
TP-LG7	0.50	1.00	ES		30/01/25																								1	EnvLabRef 25/01249/3
TP-LG8	0.40	0.80	B	1	06/02/25					1	1			1			1	1													EnvLab 25/04172/14
TP-LG8	0.40	0.80	D	2	06/02/25		1	1																							
TP-LG8	0.40	0.80	ES		06/02/25																								1	EnvLabRef 25/01492/3
TP-LG8	1.20	1.50	B	3	06/02/25																										
TP-LG8	1.20	1.50	D	4	06/02/25																										
TP-LG9	0.50	0.90	B	1	14/02/25					1	1	1																			EnvLab 25/04172/15
TP-LG9	0.50	0.90	D	2	14/02/25		1	1																							

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete							Compaction					Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-LG9	0.50	0.90	ES		14/02/25																									1	EnvLabRef 25/02144/1
TP-LG9	1.10	1.40	B	3	14/02/25					1	1	1		1			1	1													EnvLab 25/04172/16
TP-LG9	1.10	1.40	D	4	14/02/25		1	1																							
TP-LG10	0.50	1.00	B	1	18/02/25					1	1			1			1	1					*	1							EnvLab 25/04172/07
TP-LG10	0.50	1.00	D	2	18/02/25		1	1																							
TP-LR1	0.50	1.00	B	1	07/02/25					1	1			1			1	1													EnvLab 25/04172/17
TP-LR1	0.50	1.00	D	2	07/02/25		1	1																							
TP-LR2	0.50	1.00	B	1	10/02/25					1	1			1			1	1													EnvLab 25/04172/18
TP-LR2	0.50	1.00	D	2	10/02/25		1	1																							
TP-LR2	0.50	1.00	ES		10/02/25																									1	EnvLabRef 25/01492/6
TP-LR2	2.00	2.50	B	3	10/02/25					1	1			1			1	1						1							EnvLab 25/04172/19
TP-LR2	2.00	2.50	D	4	10/02/25		1	1																							
TP-LR3	0.50	1.00	B	1	07/02/25					1	1																				
TP-LR3	0.50	1.00	D	2	07/02/25		1	1																							
TP-LR4	0.50	1.00	B	1	07/02/25					1	1																				
TP-LR4	0.50	1.00	D	2	07/02/25		1	1																							
TP-LR4	0.50	1.00	ES		07/02/25																									1	EnvLabRef 25/01492/5
TP-LR4	1.50	2.00	B	3	07/02/25					1	1			1			1	1													EnvLab 25/04172/20
TP-LR4	1.50	2.00	D	4	07/02/25		1	1																							
TP-LR5	0.50	1.00	B	1	10/02/25					1	1																				
TP-LR5	0.50	1.00	D	2	10/02/25		1	1																							
TP-LR5	1.50	1.80	B	3	10/02/25					1	1	1		1			1	1													EnvLab 25/04172/21
TP-LR5	1.50	1.80	D	4	10/02/25		1	1																							
TP-LR5	3.50	4.00	B	5	10/02/25					1	1	1		1			1	1													EnvLab 25/04172/22
TP-LR5	3.50	4.00	D	6	10/02/25		1	1																							
TP-LR6	0.50	1.00	B	1	07/02/25					1	1			1			1	1													EnvLab 25/04172/23
TP-LR6	0.50	1.00	D	2	07/02/25		1	1																							
TP-LR6	0.50	1.00	ES		07/02/25																									1	EnvLabRef 25/01492/4
TP-M01	0.50	1.00	B	1	13/02/25					1	1																				
TP-M01	0.50	1.00	D	2	13/02/25		1	1																							
TP-M01	0.50	1.00	ES		13/02/25																									1	EnvLabRef 25/02144/2
TP-M01	1.50	2.00	B	3	13/02/25					1	1			1			1	1													EnvLab 25/04172/29
TP-M01	1.50	2.00	D	4	13/02/25		1	1																							
TP-M02	0.60	1.10	B	1	21/03/25					1	1												1								
TP-M02	0.60	1.10	D	2	21/03/25		1	1																							
TP-M02	0.60	1.10	ES	ES	21/03/25																									1	EnvLabRef 25/03361/6
TP-M03	0.50	1.00	B	1	21/03/25					1	1																				
TP-M03	0.50	1.00	D	2	21/03/25		1	1						1			1	1													EnvLab 25/05766/15
TP-M03	0.50	1.00	ES	ES	21/03/25																									1	EnvLabRef 25/03361/5
TP-M04	0.50	1.00	B	1	21/03/25					1	1																				
TP-M04	0.50	1.00	D	2	21/03/25		1	1																							
TP-M04	0.50	1.00	ES	ES	21/03/25																									1	EnvLabRef 25/03361/2

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Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete							Compaction						Rock		Other					
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-M04	2.00	2.50	B	3	21/03/25					1	0*																				
TP-M04	2.00	2.50	D	4	21/03/25		1	1																							
TP-M05	0.50	1.00	B	1	26/03/25					1	1			1			1	1													EnvLab 25/05766/16
TP-M05	0.50	1.00	D	2	26/03/25		1	1																							
TP-M05	0.50	1.00	ES	ES	26/03/25																									1	EnvLabRef 25/04007
TP-M05	1.50	2.00	B	3	26/03/25					1	1																				
TP-M05	1.50	2.00	D	4	26/03/25		1	1																							
TP-M06	0.50	1.00	B	1	26/03/25					1	1																				
TP-M06	0.50	1.00	D	2	26/03/25		1	1																							
TP-M06	0.50	1.00	ES	ES	26/03/25																									1	EnvLabRef 25/04007
TP-M06	1.50	2.00	B	3	26/03/25					1	1																				
TP-M06	1.50	2.00	D	4	26/03/25		1	1						1			1	1													EnvLab 25/05766/17
TP-M07	0.50	1.00	B	1	26/03/25					1	1																				
TP-M07	0.50	1.00	D	2	26/03/25		1	1																							
TP-M07	0.50	1.00	ES	ES	26/03/25																									1	EnvLabRef 25/04007
TP-M07	1.50	2.00	B	3	26/03/25					1	1																				
TP-M07	1.50	2.00	D	4	26/03/25		1	1																							
TP-M08	0.30	0.60	B	1	19/03/25					1	1																				
TP-M08	0.30	0.60	D	2	19/03/25		1	1																							
TP-M08	0.30	0.60	ES	ES	19/03/25																									1	EnvLabRef 25/03361/4
TP-M09	0.50	1.00	B	1	19/03/25					1	1																				
TP-M09	0.50	1.00	D	2	19/03/25		1	1						1			1	1													EnvLab 25/05766/18
TP-M09	0.50	1.00	ES	ES	19/03/25																									1	EnvLabRef 25/03361/1
TP-M10	0.50	1.00	B	1	31/03/25					1	1																				
TP-M10	0.50	1.00	D	2	31/03/25		1	1																							
TP-M11	0.50	1.00	B	1	02/04/25					1	1																				
TP-M11	0.50	1.00	D	2	02/04/25		1	1																							
TP-M11	0.50	1.00	ES	ES	02/04/25																									1	EnvLabRef 25/04007
TP-M11	1.50	2.00	B	3	02/04/25					1													1								
TP-M11	1.50	2.00	D	4	02/04/25		1							1			1	1													EnvLab 25/05766/19
TP-M12	0.50	1.00	B	1	02/04/25					0*	0*																				*fill, not suitable
TP-M12	0.50	1.00	D	2	02/04/25		0*	0*																							*fill, not suitable
TP-M12	1.50	2.00	B	3	02/04/25					1	1																				
TP-M12	1.50	2.00	D	4	02/04/25		1	1																							
TP-M12	2.50	2.90	B	5	02/04/25					1	1																				
TP-M12	2.50	2.90	D	6	02/04/25		1	1																							
TP-M13	0.50	1.00	B	1	02/04/25					0*																					*fill, not suitable
TP-M13	0.50	1.00	D	2	02/04/25		0*	0*																							*fill, not suitable
TP-M13	1.80	2.30	B	3	02/04/25					1	1																				
TP-M13	1.80	2.30	D	4	02/04/25		1	1						1			1	1													EnvLab 25/05766/20
TP-M14	0.50	1.00	B	1	03/04/25					1																					

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Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
Scheduled Date	From Feb - June 2025

Remarks

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-M14	0.50	1.00	D	2	03/04/25		1																								
TP-M14	1.70	2.20	B	3	03/04/25					1	1																				
TP-M14	1.70	2.20	D	4	03/04/25		1	1																							
TP-M15	0.50	1.00	B	1	07/04/25					1	1																				
TP-M15	0.50	1.00	D	2	07/04/25		1	1																							
TP-M15	1.50	2.00	B	3	07/04/25					1	1																				
TP-M15	1.50	2.00	D	4	07/04/25		1	1						1			1	1													EnvLab 25/05766/21
TP-M15	2.50	2.80	B	5	07/04/25					1	1																				
TP-M15	2.50	2.80	D	6	07/04/25		1	1																							
TP-M16	0.50	1.00	B	1	08/04/25																										
TP-M16	0.50	1.00	D	2	08/04/25		1					1																			EnvLab 25/05766/25
TP-M16	0.50	1.00	ES	ES	08/04/25																									1	EnvLabRef 25/04007
TP-M16	1.80	2.30	B	3	08/04/25					1	1																				
TP-M16	1.80	2.30	D	4	08/04/25		1	1						1			1	1													EnvLab 25/05766/22
TP-M16	3.00	3.50	B	5	08/04/25					1	1																				
TP-M16	3.00	3.50	D	6	08/04/25		1	1																							
TP-M17	0.50	1.00	B	1	09/04/25					1	1																				
TP-M17	0.50	1.00	D	2	09/04/25		1	1																							
TP-M17	1.50	2.00	B	3	09/04/25					1	0*																				
TP-M17	1.50	2.00	D	4	09/04/25		1	1															1								
TP-M18	0.50	1.00	B	1	09/04/25					1																					
TP-M18	0.50	1.00	D	2	09/04/25		1																								
TP-M18	1.50	2.00	B	3	09/04/25																										
TP-M18	1.50	2.00	D	4	09/04/25		1																								
TP-M18	2.50	2.90	B	5	09/04/25					1	1																				
TP-M18	2.50	2.90	D	6	09/04/25		1	1																							
TP-M19	0.50	1.00	B	1	22/04/25					1	0*																				
TP-M19	0.50	1.00	D	2	22/04/25		1																								
TP-M19	1.50	2.00	B	3	22/04/25					1	1																				
TP-M19	1.50	2.00	D	4	22/04/25		1	1																							
TP-M19	2.50	3.00	B	5	22/04/25																										
TP-M19	2.50	3.00	D	6	22/04/25		1					1																			EnvLab 25/07471
TP-M20	0.50	1.00	B	1	22/04/25					1	1																				
TP-M20	0.50	1.00	D	2	22/04/25		1	1																							
TP-M20	1.50	2.00	B	3	22/04/25																										
TP-M20	1.50	2.00	D	4	22/04/25		1					1																			EnvLab 25/07471
TP-M20	2.50	3.00	B	5	22/04/25					1	1																				
TP-M20	2.50	3.00	D	6	22/04/25		1	1						1			1	1													EnvLab 25/07471
TP-M21	0.50	1.00	B	1	25/04/25					1	1																				
TP-M21	0.50	1.00	D	2	25/04/25		1	1																							
TP-M21	0.50	1.00	ES	ES	25/04/25																									1	EnvLabRef 25/04883

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Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
Scheduled Date	From Feb - June 2025

Remarks

Sample Details							Classification					Chemical / Concrete							Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-M21	1.50	2.00	B	3	25/04/25																										
TP-M21	1.50	2.00	D	4	25/04/25		1					1																			EnvLab 25/07471
TP-M21	2.80	3.20	B	5	25/04/25					1	0*																				
TP-M21	2.80	3.20	D	6	25/04/25		1	1						1			1	1													EnvLab 25/07471
TP-M22	0.50	1.00	B	1	25/04/25					1	0*																				
TP-M22	0.50	1.00	D	2	25/04/25		1	1																							
TP-M22	0.50	1.00	ES	ES	25/04/25																									1	EnvLabRef 25/04883
TP-M22	2.50	3.00	B	3	25/04/25																										
TP-M22	2.50	3.00	D	4	25/04/25		1					1																			EnvLab 25/07471
TP-M23	0.50	1.00	B	1	30/04/25					1	1																				
TP-M23	0.50	1.00	D	2	30/04/25		1	1				1																			EnvLab 25/07471
TP-M23	2.00	2.50	B	3	30/04/25					1	1																				
TP-M23	2.00	2.50	D	4	30/04/25		1	1						1			1	1													EnvLab 25/07471
TP-M24	0.50	1.00	B	1	30/04/25					1	1																				
TP-M24	0.50	1.00	D	2	30/04/25		1																								
TP-M24	1.50	2.00	B	3	30/04/25																										
TP-M24	1.50	2.00	D	4	30/04/25		1					1																			EnvLab 25/07471
TP-M24	3.00	3.40	B	5	30/04/25					1	1												1								
TP-M24	3.00	3.40	D	6	30/04/25		1	1																							
TP-M25	0.50	1.00	B	1	06/05/25					1	1																				
TP-M25	0.50	1.00	D	2	06/05/25		1	1																							
TP-M25	0.50	1.00	ES	ES	06/05/25																									1	EnvLabRef 25/05609/1
TP-M25	2.00	2.50	B	3	06/05/25																										
TP-M25	2.00	2.50	D	4	06/05/25		1					1																			EnvLab 25/07471
TP-M25	3.00	3.50	B	5	06/05/25					1	1																				
TP-M25	3.00	3.50	D	6	06/05/25		1	1																							
TP-M26	0.50	1.00	B	1	06/05/25					1	1																				
TP-M26	0.50	1.00	D	2	06/05/25		1	1																							
TP-M26	2.00	2.50	B	3	06/05/25																										
TP-M26	2.00	2.50	D	4	06/05/25		1					1																			EnvLab 25/07471
TP-M26	3.00	3.50	B	5	06/05/25					1	1																				
TP-M26	3.00	3.50	D	6	06/05/25		1	1																							
TP-M27	0.50	1.00	B	1	02/05/25					1	1																				
TP-M27	0.50	1.00	D	2	02/05/25		1																								
TP-M27	0.50	1.00	ES	ES	02/05/25																									1	EnvLabRef 25/05609/2
TP-M27	1.50	1.90	B	3	02/05/25					1	1												1								
TP-M27	1.50	1.90	D	4	02/05/25		1	1						1			1	1													EnvLab 25/07471
TP-M28	0.50	1.00	B	1	02/05/25					1	0*																				
TP-M28	0.50	1.00	D	2	02/05/25		1																								
TP-M28	0.50	1.00	ES	ES	02/05/25																									1	EnvLabRef 25/05609/3
TP-M28	1.50	2.00	B	3	02/05/25					1	1																				

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Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
Scheduled Date	From Feb - June 2025

Remarks

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-M28	1.50	2.00	D	4	02/05/25		1	1						1			1	1													EnvLab 25/07471
TP-M28	2.50	3.00	B	5	02/05/25					1	1																				
TP-M28	2.50	3.00	D	6	02/05/25		1	1																							
TP-M29	0.40	0.80	B	1	07/05/25					1	0*																				
TP-M29	0.40	0.80	D	2	07/05/25		1																								
TP-M29	0.40	0.80	ES	ES	07/05/25																									1	EnvLabRef 25/05609/4
TP-M29	1.50	2.00	B	3	07/05/25					1	1																				
TP-M29	1.50	2.00	D	4	07/05/25		1	1						1			1	1													EnvLab 25/07471
TP-M30	0.50	1.00	B	1	08/05/25					1	1																				
TP-M30	0.50	1.00	D	2	08/05/25		1																								
TP-M30	2.50	3.00	B	3	08/05/25					1	1																				
TP-M30	2.50	3.00	D	4	08/05/25		1	1																							
TP-M30A	0.50	1.00	B	1	07/05/25					1	1																				
TP-M30A	0.50	1.00	D	2	07/05/25		1																								
TP-M30A	1.50	2.00	B	3	07/05/25																										
TP-M30A	1.50	2.00	D	4	07/05/25		1					1																			EnvLab 25/07471
TP-M30A	3.00	3.30	B	5	07/05/25					1	1																				
TP-M30A	3.00	3.30	D	6	07/05/25		1	1						1			1	1													EnvLab 25/07471
TP-M30B	0.50	1.00	B	1	08/05/25					1	1																				
TP-M30B	0.50	1.00	D	2	08/05/25		1																								
TP-M30B	2.50	3.00	B	3	08/05/25																										
TP-M30B	2.50	3.00	D	4	08/05/25		1					1																			EnvLab 25/07471
TP-M30C	0.50	1.00	B	1	13/05/25					1	1																				
TP-M30C	0.50	1.00	D	2	13/05/25		1	1						1			1	1													EnvLab 25/09020
TP-M30C	1.50	2.00	B	3	13/05/25					1	1																				
TP-M30C	1.50	2.00	D	4	13/05/25		1	1																							
TP-M31	0.50	1.00	B	1	13/05/25					1	1																				
TP-M31	0.50	1.00	D	2	13/05/25		1	1																							
TP-M31	1.50	1.80	B	3	13/05/25					1	1																				
TP-M31	1.50	1.80	D	4	13/05/25		1	1																							
TP-M32	0.50	1.00	B	1	21/05/25					1	1																				
TP-M32	0.50	1.00	D	2	21/05/25		1	1																							
TP-M32	0.50	1.00	ES	ES	21/05/25																									1	EnvLabRef 25/05609/5
TP-M32	2.00	2.50	B	3	21/05/25					1	1																				
TP-M32	2.00	2.50	D	4	21/05/25		1	1																							
TP-M33	0.40	0.80	B	1	21/05/25					1	1																				
TP-M33	0.40	0.80	D	2	21/05/25		1	1						1			1	1													EnvLab 25/09020
TP-M33	1.20	1.60	B	3	21/05/25					1	1																				
TP-M33	1.20	1.60	D	4	21/05/25		1	1																							
TP-M34	0.50	1.00	B	1	22/05/25					1	0*												1								
TP-M34	0.50	1.00	D	2	22/05/25		1	1																							

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
Scheduled Date	From Feb - June 2025

Remarks

Sample Details							Classification					Chemical / Concrete							Compaction						Rock		Other					
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-M34	1.50	2.00	B	3	22/05/25					1	0*																				
TP-M34	1.50	2.00	D	4	22/05/25		1	1																							
TP-M35	0.50	1.00	B	1	21/05/25					1	1																				
TP-M35	0.50	1.00	D	2	21/05/25		1	1																							
TP-M35	0.50	1.00	ES	ES	21/05/25																									1	EnvLabRef 25/05609/6
TP-M36	0.50	1.00	B	1	22/05/25					1	1																				
TP-M36	0.50	1.00	D	2	22/05/25		1	1																							
TP-M36	0.50	1.00	ES	ES	20/05/25																									1	EnvLab Ref: 25/06298
TP-M37	0.40	0.80	B	1	22/05/25					1	1																				
TP-M37	0.40	0.80	D	2	22/05/25		1																								
TP-M37	0.40	0.80	ES	ES	22/05/25																									1	EnvLab Ref: 25/06298
TP-M38	0.50	1.00	B	1	26/05/25					1	1												1								
TP-M38	0.50	1.00	D	2	26/05/25		1	1						1			1	1													EnvLab 25/09020
TP-M38	1.50	2.00	B	3	26/05/25					1	1																				
TP-M38	1.50	2.00	D	4	26/05/25		1	1																							
TP-M39	0.50	1.00	B	1	26/05/25																										
TP-M39	0.50	1.00	D	2	26/05/25		1					1																			EnvLab 25/09020
TP-M39	0.50	1.00	ES	ES	26/05/25																									1	EnvLab Ref: 25/06298
TP-M39	1.50	2.00	B	3	26/05/25					1	1																				
TP-M39	1.50	2.00	D	4	26/05/25		1	1				1																			EnvLab 25/09020
TP-M39	2.50	3.00	B	5	26/05/25					1	1																				
TP-M39	2.50	3.00	D	6	26/05/25		1																								
TP-M41	0.50	1.00	B	1	27/06/25																										
TP-M41	0.50	1.00	D	2	27/06/25		1					1																			EnvLab 25/09020
TP-M41	3.00	3.50	B	3	27/06/25					1	1																				
TP-M41	3.00	3.50	D	4	27/06/25		1	1																							
TP-M42	0.50	1.00	B	1	27/06/25					1	1																				
TP-M42	0.50	1.00	D	2	27/06/25		1	1																							
TP-M42	2.50	3.00	B	3	27/06/25					1	1																				
TP-M42	2.50	3.00	D	4	27/06/25		1	1																							
TP-M44	0.50	1.00	B	1	27/06/25					1	1																				
TP-M44	0.50	1.00	D	2	27/06/25		1	1						1			1	1													EnvLab 25/09020
TP-M44	2.00	2.50	B	3	27/06/25					1	1																				
TP-M44	2.00	2.50	D	4	27/06/25		1	1																							
TP-M45	0.50	0.90	B	1	28/05/25					1	1																				
TP-M45	0.50	0.90	D	2	28/05/25		1	1																							
TP-M45	1.50	2.00	B	3	28/05/25																										
TP-M45	1.50	2.00	D	4	28/05/25		1					1																			EnvLab 25/09020
TP-M45	3.00	3.50	B	5	28/05/25					1	1																				
TP-M45	3.00	3.50	D	6	28/05/25		1	1																							
TP-M46	0.50	1.00	B	1	28/05/25					1	1																				

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Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
Scheduled Date	From Feb - June 2025

Remarks

Sample Details							Classification					Chemical / Concrete							Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-M46	0.50	1.00	D	2	28/05/25		1	1																							
TP-M46	2.00	2.50	B	3	28/05/25																										
TP-M46	2.00	2.50	D	4	28/05/25		1					1																			EnvLab 25/09020
TP-M46	3.00	3.50	B	5	28/05/25					1	1																				
TP-M46	3.00	3.50	D	6	28/05/25		1	1																							
TP-M47	0.50	1.00	B	1	28/05/25					1	1												1								
TP-M47	0.50	1.00	D	2	28/05/25		1	1																							
TP-M47	1.50	2.00	B	3	28/05/25					1	1																				
TP-M47	1.50	2.00	D	4	28/05/25		1	1																							
TP-M48	0.50	1.00	B	1	26/05/25					1	1																				
TP-M48	0.50	1.00	D	2	26/05/25		1	1																							
TP-M48	1.50	2.00	B	3	26/05/25					1	1																				
TP-M48	1.50	2.00	D	4	26/05/25		1	1																							
TP-M49	0.50	1.00	B	1	19/03/25					1	0*																				
TP-M49	0.50	1.00	D	2	19/03/25									1			1	1													EnvLab 25/05766/23
TP-M49	0.50	1.00	D	2	19/03/25		1	1															1								
TP-M49	2.00	2.50	B	3	19/03/25					1																					
TP-M49	2.00	2.50	D	4	19/03/25		1																								
TP-M50	0.40	0.80	D	2	19/03/25		1	1		1		0*																			Was logged as TP-M55. Label mix-up delayed analysis - disposed in Envirolab
TP-M50	1.30	1.70	D	2	19/03/25		1	1		1				0*			0*	0*												
TP-M51	0.50	1.00	B	1	18/03/25					1																					
TP-M51	0.50	1.00	D	2	18/03/25		1																								
TP-M51	1.50	2.00	B	3	18/03/25					1																					
TP-M51	1.50	2.00	D	4	18/03/25		1																								
TP-M51	2.50	3.00	B	3	18/03/25					1																					
TP-M51	2.50	3.00	D	4	18/03/25		1																								
TP-M52	0.40	0.80	B	1	18/03/25					1	1																				
TP-M52	0.40	0.80	D	2	18/03/25		1	1																							
TP-M52	0.40	0.80	ES	ES	18/03/25																									1	EnvLabRef 25/03361/3
TP-M52	1.50	2.00	B	3	18/03/25					1																					
TP-M52	1.50	2.00	D	4	18/03/25		1							1			1	1													EnvLab 25/05766/24
TP-M52	2.50	3.00	B	5	18/03/25					1																					
TP-M52	2.50	3.00	D	6	18/03/25		1																								
TP-M53	0.60	1.00	B	1	18/03/25		1																								
TP-M53	0.60	1.00	D	2	18/03/25					1																					
TP-M53	2.00	2.50	B	3	18/03/25		1																								
TP-M53	2.00	2.50	D	4	18/03/25					1																					
TP-M54	0.50	1.00	B	1	18/03/25					1																					
TP-M54	0.50	1.00	D	2	18/03/25		1																								

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0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete							Compaction					Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-M57	0.40	0.50	B	1	26/06/25		1	1		1	1																				
TP-M57	0.90	1.00	B	2	26/06/25		1			1				1			1	1													EnvLab 25-09650
TP-M57	2.50	2.60	B	3	26/06/25		1			1																					
TP-M58	0.50	0.60	B	1	26/06/25		1	1		1	1																				
TP-M58	0.80	0.90	B	2	26/06/25		1			1																					
TP-M58	2.00	2.10	B	3	26/06/25		1			1																					
TP-M61	0.40	0.50	B	1	26/06/25		1	1		1	1													1							
TP-M61	1.40	1.50	B	2	26/06/25		1	1		1	1																				
TP-M61	2.40	2.50	B	3	26/06/25		1			1																					
TP-M64	0.50	0.60	B	1	11/06/25		1			1																					
TP-M64	1.10	1.20	B	3	11/06/25		1			1				1			1	1													EnvLab 25-09650
TP-M64	2.50	2.60	B	4	11/06/25		1			1																					
TP-M65	0.30	0.40	B	1	26/06/25		1			1																					
TP-M65	1.10	1.20	B	2	26/06/25		1			1																					
TP-M66	0.50	0.60	B	1	12/06/25		1			1																					
TP-M66	0.50	0.60	ES	3	12/06/25																									1	EnvLabRef: 25/06993
TP-M66	1.50	1.60	B	2	12/06/25		1			1																					
TP-M68	0.80	0.90	B	1	12/06/25		1			1																					
TP-M68	1.80	1.90	B	2	12/06/25		1			1																					
TP-M68	2.60	2.70	B	3	12/06/25		1			1																					
TP-M69	0.50	0.60	B	1	16/06/25		1			1				1			1	1													EnvLab 25-09650
TP-M69	1.50	1.60	B	2	16/06/25		1			1																					
TP-M69	2.40	2.50	B	3	16/06/25		1			1																					
TP-M71	0.50	1.00	B	1	03/06/25					1	1												1								
TP-M71	0.50	1.00	D	2	03/06/25		1	1						1			1	1													EnvLab 25/09020
TP-M71	2.00	2.50	B	3	03/06/25					1	0*																				
TP-M71	2.00	2.50	D	4	03/06/25		1	1																							
TP-M72	0.50	1.00	B	1	07/03/25					1	0*																				
TP-M72	0.50	1.00	D	2	07/03/25		1	0*						1			1	1													EnvLab 25/04172/24
TP-M72	1.50	2.00	B	3	07/03/25					1	0*																				
TP-M72	1.50	2.00	D	4	07/03/25		1	1																							
TP-M72	2.50	3.00	B	5	07/03/25					1	0*																				
TP-M72	2.50	3.00	D	6	07/03/25		1	1																							
TP-M73	0.50	1.00	B	1	07/03/25					1	1																				
TP-M73	0.50	1.00	D	2	07/03/25		1	1						1			1	1													EnvLab 25/04172/25
TP-M73	1.50	2.00	B	3	07/03/25					1	1																				
TP-M73	1.50	2.00	D	4	07/03/25		1	1																							
TP-M74	0.50	1.00	B	1	07/03/25					1	1																				
TP-M74	0.50	1.00	D	2	07/03/25		1	1																							
TP-M74	1.50	2.00	B	3	07/03/25					1	1																				
TP-M74	1.50	2.00	D	4	07/03/25		1	1						1			1	1													EnvLab 25/04172/26

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0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other				
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-M75	0.50	1.00	B	1	03/03/25					1	1												1								
TP-M75	0.50	1.00	D	2	03/03/25		1	1																							
TP-M75	0.50	1.00	ES	ES	03/03/25																									1	EnvLabRef 25/02511/5
TP-M75	2.00	2.50	B	3	03/03/25					1	0*																				
TP-M75	2.00	2.50	D	4	03/03/25		1	1						1			1	1													EnvLab 25/04172/27
TP-M75	3.00	3.00	B	5	03/03/25																										
TP-M75	3.00	3.00	D	6	03/03/25																										
TP-M76	0.50	1.00	B	1	03/03/25					1	0*																				
TP-M76	0.50	1.00	D	2	03/03/25		1	1																							
TP-M76	2.00	2.50	B	3	03/03/25					1																					
TP-M76	2.00	2.50	D	4	03/03/25		1																								
TP-M77	0.50	1.00	B	1	03/03/25					1	1																				
TP-M77	0.50	1.00	D	2	03/03/25		1	1																							
TP-M77	1.50	2.00	B	3	03/03/25					1	1																				
TP-M77	1.50	2.00	D	4	03/03/25		1	1						1			1	1													EnvLab 25/04172/28
TP-M78	0.50	1.00	B	1	03/03/25																										
TP-M78	0.50	1.00	D	2	03/03/25		1																								
TP-M78	0.50	1.00	ES	ES	03/03/25																									1	EnvLabRef 25/02511/6
TP-M79	0.50	1.00	B	1	17/06/25					1	0*																				Hyd
TP-M79	0.50	1.00	D	2	17/06/25		1	1						1			1	1													EnvLab 25/09020
TP-M79	2.00	2.50	B	3	17/06/25																										
TP-M79	2.00	2.50	D	4	17/06/25		1					1																			EnvLab 25/09020
TP-M80	0.40	0.70	B	1	17/06/25					1	1																				
TP-M80	0.40	0.70	D	2	17/06/25		1	1																							
TP-M80	0.40	0.70	ES		17/06/25																									1	EnvLabRef: 25/06993
TP-M80	1.50	2.00	B	3	17/06/25																										
TP-M80	1.50	2.00	D	4	17/06/25		1					1																			EnvLab 25/09020
TP-M80	3.00	3.50	B	5	17/06/25					1	1																				
TP-M80	3.00	3.50	D	6	17/06/25		1	1																							
TP-M81	0.60	1.00	B	1	17/06/25																										
TP-M81	0.60	1.00	D	2	17/06/25		1					1																			EnvLab 25/09020
TP-M81	2.50	3.00	B	3	17/06/25					1	1																				
TP-M81	2.50	3.00	D	4	17/06/25		1	1																							
TP-M82	0.50	1.00	B	1	17/06/25																										
TP-M82	0.50	1.00	D	2	17/06/25		1					1																			EnvLab 25/09020
TP-M82	1.50	2.00	B	3	17/06/25					1	1																				
TP-M82	1.50	2.00	D	4	17/06/25		1	1																							
TP-M83	0.50	1.00	B	1	24/06/25					1	0*																				
TP-M83	0.50	1.00	D	2	24/06/25		1	1																							
TP-M83	0.50	1.00	ES		24/06/25																									1	EnvLab Ref 25-08937
TP-M83	1.50	2.00	B	3	24/06/25					1	0*																				

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105		Client	Irish Water	Remarks
Project Name	Lot 1, Lough Talt		Report Date	18 December 2025	
Schedule ID	2024SO105_total		Scheduled Date	From Feb - June 2025	

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other					
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-M83	1.50	2.00	D	4	24/06/25		1	1																							
TP-M84	0.50	1.00	B	1	25/06/25					1	0*												1								
TP-M84	0.50	1.00	D	2	25/06/25		1	1																							
TP-M84	1.50	2.00	B	3	25/06/25					1	0*																				
TP-M84	1.50	2.00	D	4	25/06/25		1																								
TP-M85	0.50	1.00	B	1	25/06/25					1	0*																				*Peat unsuitable for Hyd
TP-M85	0.50	1.00	D	2	25/06/25		1	1				1																			EnvLab 25/09020
TP-M85	2.50	3.00	B	3	25/06/25					1	0*																				
TP-M85	2.50	3.00	D	4	25/06/25		1																								
TP-M86	0.50	1.00	B	1	27/06/25																										
TP-M86	0.50	1.00	D	2	27/06/25		1					1																			EnvLab 25/09020
TP-M86	2.50	3.00	B	3	27/06/25																										
TP-M86	2.50	3.00	D	4	27/06/25		1					1																			EnvLab 25/09020
TP-M88	0.40	0.50	B	1	26/06/25		1			1	0*																				
TP-M88	0.40	0.50	ES	2	26/06/25																									1	EnvLab Ref 25-08937
TP-M88	1.40	1.50	B	3	26/06/25		1					1																			EnvLab 25-09650
TP-M88	2.40	2.50	B	4	26/06/25		1					1																			EnvLab 25-09650
TP-M89	0.50	0.60	B	1	19/06/25		1			1																					
TP-M89	1.50	1.60	B	2	19/06/25		1					1																			EnvLab 25-09650
TP-M91	0.50	1.00	B	1	23/06/25					1	0*																				
TP-M91	0.50	1.00	D	2	23/06/25		1	1						1			1	1													EnvLab 25/09020
TP-M92	0.40	0.80	ES		23/06/25																									1	EnvLabRef: 25/06993
TP-M92	0.80	1.30	B	1	23/06/25					1	1																				
TP-M92	0.80	1.30	D	2	23/06/25		1	1				1																			EnvLab 25/09020
TP-M93	0.50	1.00	B	1	23/06/25					1	1																				
TP-M93	0.50	1.00	D	2	23/06/25		1	1																							
TP-M94	0.60	0.70	B	1	23/06/25		1			1	0*												1								
TP-M94	1.60	1.70	D	2	23/06/25		1																								
TP-M94	2.30	2.40	B	3	23/06/25		1			1																					
TP-M95	0.60	0.70	B	1	24/06/25		1			1																					
TP-M95	0.90	1.00	B	2	24/06/25		1			1				1			1	1													EnvLab 25-09650
TP-M95	1.50	1.60	B	3	24/06/25		1			1																					
TP-M95	1.80	1.90	B	4	24/06/25		1			1																					
TP-M96	0.50	0.60	B	1	24/06/25		0*			0*																					* not suitable - cobbles
TP-M96	1.20	1.30	B	2	24/06/25		1	1		1	0*												1								
TP-M97	0.50	0.60	B	1	24/06/25		1			1																					
TP-M97	0.90	1.00	B	2	24/06/25		1	1		1	1	1																			EnvLab 25-09650
TP-M97	1.30	1.40	B	3	24/06/25		1			1																					
TP-M98	0.30	0.40	B	1	24/06/25		1	1		1	1																				
TP-M98	0.30	0.40	ES	2	24/06/25																									1	EnvLab Ref 25-08937
TP-M98	1.30	1.40	B	3	24/06/25		1			1																					

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
Scheduled Date	From Feb - June 2025

Remarks

Sample Details							Classification					Chemical / Concrete								Compaction					Rock		Other					
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-M99	0.50	0.60	B	1	24/06/25		1			1																					
TP-M99	1.50	1.60	B	2	24/06/25		1	1		1	1																				
TP-M100	0.50	0.60	B	1	25/06/25		1			1																					
TP-M100	1.50	1.60	B	2	25/06/25		1	1		1	0*			1			1	1					1								EnvLab 25-09650
TP-M100	2.00	2.10	B	3	25/06/25		1			1																					
TP-M101	0.60	0.70	B	1	25/06/25		1			1																					
TP-M101	1.60	1.70	B	2	25/06/25		1			1				1			1	1													EnvLab 25-09650
TP-M101	2.60	2.70	B	3	25/06/25		1			1																					
TP-R01	0.50	1.00	B	1	25/02/25																										
TP-R01	0.50	1.00	D	2	25/02/25		1																								
TP-R01	2.00	2.50	B	3	25/02/25					1	1												1								
TP-R01	2.00	2.50	D	4	25/02/25		1	1						1			1	1													EnvLab 25/04172/30
TP-R02	0.60	1.00	B	1	24/02/25					1	1																				
TP-R02	0.60	1.00	D	2	24/02/25		1	1																							
TP-R02	0.60	1.00	ES	ES	24/02/25																									1	EnvLabRef 25/02511/1
TP-R02	1.50	2.00	B	3	24/02/25					1	1													1							
TP-R02	1.50	2.00	D	4	24/02/25		1	1						1			1	1													EnvLab 25/04172/31
TP-R03	0.50	1.00	B	1	24/02/25					1	1																				
TP-R03	0.50	1.00	D	2	24/02/25		1	1																							
TP-R03	0.50	1.00	ES	ES	24/02/25																									1	EnvLabRef 25/02511/2
TP-R03	2.00	2.50	B	3	24/02/25					1	1																				
TP-R03	2.00	2.50	D	4	24/02/25		1	1																							
TP-R04	0.50	1.00	B	1	24/02/25																		1								
TP-R04	0.50	1.00	D	2	24/02/25									1			1	1													EnvLab 25/04172/32
TP-R04	0.50	1.00	ES	ES	24/02/25																									1	EnvLabRef 25/02511/3
TP-R04	1.50	1.80	B	3	24/02/25																										
TP-R04	1.50	1.80	D	4	24/02/25																										
TP-T01	0.5	1	ES	1	26/02/25																									1	EnvLabRef 25/02144/6
TP-T01	0.50	1.00	B	1	26/02/25					1																					
TP-T01	0.50	1.00	D	2	26/02/25		1																								
TP-T02	0.50	1.00	B	1	27/02/25					1																					
TP-T02	0.50	1.00	D	2	27/02/25		1																								
TP-T02	0.50	1.00	ES	ES	27/02/25																									1	EnvLabRef 25/02511/4
TP-T03	0.5	1	ES	1	26/02/25																									1	EnvLabRef 25/02144/5
TP-T03	0.50	1.00	B	1	26/02/25					1	1																				
TP-T03	0.50	1.00	D	2	26/02/25		1	1																							
TP-T03	2.00	2.50	B	3	26/02/25					1	0*													1							

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Client	Irish Water
Report Date	18 December 2025
Scheduled Date	From Feb - June 2025

Remarks

Sample Details							Classification					Chemical / Concrete								Compaction						Rock		Other					
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Moisture Content	Atterberg 4 Point	Particle Density by Gas Jar	Particle Size	Hydrometer	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content	Chloride	Compaction Light	Compaction Heavy	Compaction Vibrating Hammer	Moisture Condition Value	Moisture Condition	Rock Uniaxial	Point Load	LA Abrasion	Slake Durab	VonPost	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
Total Completed							399	233	1	328	194	54	0	102	0	0	102	102	0	0	0	0	34	8	44	118	6	9	2	64	0
TP-T03	2.00	2.50	D	4	26/02/25		1	1						1			1	1													EnvLab 25/04172/33
TP-T03	4.00	4.50	B	5	26/02/25					1	0*																				
TP-T03	4.00	4.50	D	6	26/02/25		1	1						1			1	1													EnvLab 25/04172/34
TP-T04	0.5	1	ES	1	26/02/25																									1	EnvLabRef 25/02144/4
TP-T04	0.50	1.00	B	1	26/02/25					1	1																				
TP-T04	0.50	1.00	D	2	26/02/25		1	1																							
TP-T04	1.50	2.00	B	3	26/02/25					1	1												1								
TP-T04	1.50	2.00	D	4	26/02/25		1	1																							
TP-WH01	0.50	0.90	B	1	21/02/25					1	1																				
TP-WH01	0.50	0.90	D	2	21/02/25		1	1																							
TP-WH01	0.50	0.90	ES		21/02/25																									1	EnvLabRef 25/02144/3
TP-WH01	1.50	2.00	B	3	21/02/25					1	1			1			1	1						1							EnvLab 25/04172/35
TP-WH01	1.50	2.00	D	4	21/02/25		1	1																							
TP-M102	0.50	1.00	B	1	05/11/25						1	1																			
TP-M102	0.50	1.00	D	2	05/11/25		1	1																							
TP-M102	1.50	2.00	B	3	05/11/25																										
TP-M102	1.50	2.00	D	4	05/11/25		1	1																							
TP-M103	0.50	1.00	B	1	07/11/25																										
TP-M103	0.50	1.00	D	2	07/11/25		1	1																							

END

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Summary of Classification Test Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk / dry Mg/m3		w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
BH-FR01	1	0.00	1.00	B		Brown slightly sandy slightly gravelly SILT.			29.0						
BH-FR01	4	1.20	1.60	B		Light brown slightly gravelly sandy SILT. Sand is medium.			35.0	62	45	38	7		MI
BH-FR02	1	0.00	1.00	B		Brown slightly sandy slightly gravelly SILT.			28.0	69	53	34	19		MH
BH-FR02	4	1.20	1.60	B		Brown very sandy very silty fine GRAVEL.			20.0	50	50	39	11		MI
BH-LG2	2	1.00		D		Light brown slightly gravelly slightly sandy SILT.			17.0		35	24	11		CL
BH-LG3	2	1.00		D		Light brown slightly gravelly slightly sandy SILT.			48.0		48	33	15		MI
BH-LG3	5	2.00		D		Light brown slightly sandy slightly gravelly SILT.			38.0						
BH-LG4	1	0.00	1.00	B		Brown slightly sandy gravelly SILT.			33.0	53	49	32	17		MI
BH-LG4	2	1.00		D		Brown slightly gravelly slightly sandy SILT.			58.0	49					NP
BH-LG5	1	0.00	1.00	B		Light brown slightly sandy gravelly SILT.			29.0	58	47	29	18		MI
BH-LG5	5	2.00		D		Light brown slightly sandy gravelly SILT.			16.0	34	38	34	4		MI
BH-LG6	7	2.00	2.50	B		Greyish-brown sandy very silty coarse GRAVEL.			19.0	35	44	32	12		MI
BH-LR1	2	1.00		D		Light brown slightly sandy gravelly SILT.			8.1		43	28	15		MI
BH-M02	4	1.00	1.50	B		Dark grey very silty very sandy medium GRAVEL.			10.0	36					
BH-M03	1	0.00	1.00	B		Dark brown PEAT.			226.0						
BH-M03	4	1.00	1.50	B		Blackish-grey slightly sandy slightly gravelly SILT.			49.0	65	63	42	21		MH
BH-M03	5	2.00		D		Dark grey slightly gravelly sandy SILT. Sand is fine.			21.0						NP
BH-M03	8	3.00		D		Dark grey slightly gravelly sandy SILT.			10.0		20	13	7		CL
BH-M03	11	4.00		D		Dark grey slightly gravelly sandy SILT.			18.0		22	15	7		CL
BH-M03A	1	0.00	1.00	B		Dark brown slightly gravelly sandy SILT. Sand is fine.			49.0	77	79	62	17		MV
BH-M03A	2	1.00		D		Dark brown slightly gravelly sandy SILT. Sand is fine.			25.0	74	31	24	7		ML
BH-M04	1	0.00	1.00	B		Dark brown slightly gravelly sandy SILT.			67.0	71	91	62	29		ME
BH-M04	2	1.00		D		Dark brown very gravelly very silty fine SAND.			35.0	70	68	40	28		MH
BH-M04	5	2.00		D		Dark greyish-brown slightly sandy slightly gravelly SILT.			22.0	70					NP
BH-M04	8	3.00		D		Dark grey very gravelly very silty SAND.			14.0						NP
BH-M04A	1	0.00	1.00	B		Brown slightly gravelly sandy SILT.			40.0	58	61	45	16		MH

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test | Liquid Limit | Particle density

Linear measurement unless : | 4pt cone unless : | sp - small pyknometer

wd - water displacement | 1pt - single point test | gj - gas jar

wi - immersion in water | NP - Non Plastic

Date Printed: 05/03/2026 11:19

QC From No: R1

Approved By: Administrator

Table 1 sheet 1

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
BH-M04A	2	1.00		D		Brown slightly sandy slightly gravelly SILT.			37.0	47	69	40	29		MH
BH-M04A	5	2.00		D		Light brown very silty very sandy GRAVEL.			14.0		30	19	11		CL
BH-M04A	11	3.00		D		Light brown slightly sandy gravelly SILT.			12.0	45	23	18	5		ML
BH-M04A	14	4.00		D		Grey slightly sandy slightly gravelly SILT.			8.4						
BH-M05	2	1.00		D		Dark brown slightly gravelly slightly sandy SILT.			70.0		100	59	41		ME
BH-M05	5	2.00		D		Light brown slightly gravelly slightly sandy SILT.			44.0	72	56	35	21		MH
BH-M05	8	3.00		D		Light brown very sandy very silty medium GRAVEL.			19.0	40	31	21	10		CL
BH-M06	2	1.00		D		Light brown very silty very gravelly medium and coarse SAND.			20.0						
BH-M06	5	2.00		D		Greyish-dark brown very gravelly very silty medium SAND.			45.0	53					NP
BH-M06	8	3.00		D		Grey very silty very sandy medium GRAVEL.			9.8	92	62	52	10		MH
BH-M06	11	4.00		D		Dark grey very silty medium SAND and medium GRAVEL.			11.0						
BH-M06A	4	1.00	1.50	B		Dark grey silty sandy medium GRAVEL.			7.1	19	34	20	14		CL
BH-M06A	7	2.00	2.50	B		Light brown very silty very sandy GRAVEL.			27.0	35	59	39	20		MH
BH-M06A	10	3.00	3.50	B		Greyish-light brown slightly gravelly sandy SILT. Sand is medium.			41.0	72	57	44	13		MH
BH-M06A	13	4.00	4.50	B		Daark grey very sandy very silty fine and medium GRAVEL.			8.2	41	23	17	6		ML
BH-M06A	16	5.00	5.50	B		Dark grey very silty SAND and GRAVEL.			12.0	52					
BH-M07	1	0.00	1.00	B		Grey silty sandy medium GRAVEL.			8.1						
BH-M07	2	1.00		D		Dark grey silty very sandy medium GRAVEL.			5.7						
BH-M07	5	2.00		D		Greyish-dark brown very silty very sandy GRAVEL.			25.0		52	41	11		MH
BH-M07	8	3.00		D		Dark grey slightly sandy gravelly SILT.			15.0		41	30	11		MI
BH-M08	2	1.00		D		Dark brown slightly sandy slightly gravelly PEATY SILT.			195.0						
BH-M08	5	2.00		D		Grey slightly sandy gravelly SILT.			8.2						
BH-M08	8	3.00		D		Dark grey slightly gravelly sandy SILT.			20.0		37	25	12		MI
BH-M08	11	4.00		D		Dark grey very silty very sandy GRAVEL.			11.0		28	17	11		CL
BH-M09	2	1.00		D		Light brown slightly gravelly sandy SILT.			20.0						
BH-M09	5	2.00		D		Dark brown slightly sandy slightly gravelly SILT.			173.0						

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key: w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: wd - water displacement; wi - immersion in water

Linear measurement unless : 4pt cone unless : 1pt - single point test; Liquid Limit: NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

Date Printed: 05/03/2026 11:20

QC From No: R1

Approved By: Administrator

Table 1 sheet 2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
BH-M09	8	3.00		D		Dark brown slightly sandy slightly gravelly SILT.			189.0						
BH-M09	11	4.00		D		Dark brown slightly sandy slightly gravelly organic SILT.			143.0	63	48	33	15		MI
BH-M09	14	5.00		D		Greyish light brown slightly sandy slightly gravelly SILT.			18.0		32	27	5		ML
BH-M10	1	0.00	1.00	B		Dark brown very sandy very silty GRAVEL.			32.0	50					
BH-M10	5	2.00		D		Dark brown slightly gravelly sandy SILT.			29.0						
BH-M10	8	3.00		D		Dark brown slightly sandy slightly gravelly SILT.			35.0		43	35	8		MI
BH-M10	11	4.00		D		Greyish light brown very silty SAND and GRAVEL.			26.0						
BH-M10	14	5.00		D		Grey slightly sandy gravelly SILT.			11.0						
BH-M14	4	1.00	1.50	B		Dark grey slightly gravelly sandy SILT.			15.0	62					NP
BH-M14	5	2.00		D		Dark grey slightly gravelly sandy SILT.			10.0	67	18	12	6		CL
BH-M14	8	3.00		D		Grey slightly gravelly slightly sandy SILT.			8.7		19	13	6		CL
BH-M15	1	0.00	1.00	B		Brown gravelly very silty medium and coarse SAND.			61.0	48					
BH-M15	2	1.00		D		Grey silty medium SAND and medium GRAVEL.			21.0						
BH-M15	5	2.00		D		Grey silty very gravelly medium and coarse SAND.			18.0						
BH-M15	8	3.00		D		Grey silty SAND and GRAVEL. Sand is coarse.			14.0						
BH-M15	11	4.00		D		Grey silty very sandy coarse GRAVEL.			13.0						
BH-M16	1	0.00	1.00	B		Dark brown silty very gravelly medium and coarse SAND.			19.0	34					
BH-M16	2	1.00		D		Dark grey silty SAND and GRAVEL. Gravel is mostly medium.			20.0						
BH-M16	5	2.00		D		Greyish-brown very silty very gravelly SAND.			13.0						
BH-M16	8	3.00		D		Grey slightly gravelly slightly sandy SILT.			18.0						NP
BH-M16	11	4.00		D		Grey silty very sandy coarse GRAVEL.			6.5	5					NP
BH-M16	14	5.00		D		Bluish-grey silty very sandy fine and medium GRAVEL. Sand is coarse.			7.4						NP
BH-M16	17	6.00		D		Bluish-grey slightly silty very sandy fine and medium GRAVEL. Sand is coarse.			7.3						NP
BH-M17	2	1.00		D		Light brown silty very gravelly coarse SAND.			17.0						
BH-M17	5	2.00		D		Light brown silty very gravelly coarse SAND.			16.0						
BH-M17	8	3.00		D		Light brown silty very gravelly coarse SAND.			17.0						

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key: w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: wd - water displacement; wi - immersion in water

Liquid Limit: 4pt cone unless : ; 1pt - single point test; NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

Linear measurement unless :

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QC From No: R1

Approved By: Administrator

Table 1 sheet 3

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
BH-M17	11	4.00		D		Light brown silty very gravelly coarse SAND.			16.0						
BH-M17	14	5.00		D		Light brown silty very gravelly coarse SAND.			15.0						
BH-M17	17	6.00		D		Light brown silty very gravelly coarse SAND.			15.0						
BH-M17A	1	0.00	1.00	B		Light brown silty very gravelly SAND.			33.0	51	63	40	23		MH
BH-M17A	2	1.00		D		Light brown silty very gravelly coarse SAND.			14.0						
BH-M17A	5	2.00		D		Light brown silty very gravelly coarse SAND.			15.0						
BH-M17A	8	3.00		D		Light brown gravelly silty fine SAND.			22.0						
BH-M17A	11	4.00		D		Light brown gravelly silty medium SAND.			17.0						
BH-M17A	14	5.00		D		Light brown gravelly very silty medium SAND.			20.0						
BH-M17A	17	6.00		D		Light brown gravelly very silty medium SAND.			18.0						
BH-M20	1	0.00	1.00	B		Brownish-grey slightly sandy slightly gravelly SILT.			81.0	56	111	84	27		MEO
BH-M20	2	1.00		D		Grey very silty very gravelly medium and coarse SAND.			19.0						NP
BH-M20	5	2.00		D		Grey gravelly very silty medium and coarse SAND.			19.0		35	25	10		ML
BH-M20	8	3.00		D		Greyish-brown silty very gravelly medium and coarse SAND.			15.0						NP
BH-M20	11	4.00		D		Light greyish-brown slightly gravelly slightly sandy SILT.			20.0	38					NP
BH-M20	14	5.00		D		Light brown slightly gravelly slightly sandy SILT.			22.0		39	20	19		CI
BH-M20	17	6.00		D		Light brown slightly gravelly slightly sandy SILT.			16.0	78	30	15	15		CL
BH-M20A	2	1.00		D		Light brown gravelly very silty SAND.			34.0	71	34	24	10		ME
BH-M20A	5	2.00		D		Light brown slightly sandy slightly gravelly SILT.			30.0						
BH-M20B	1	0.00	1.00	B		Brown slightly gravelly sandy SILT.			28.0		51	34	17		MH
BH-M20B	2	1.00		D		Light brown silty very gravelly SAND.			19.0	60					NP
BH-M20B	5	2.00		D		Light brown silty very gravelly SAND.			13.0						
BH-M20B	8	3.00		D		Light brown silty fine and medium SAND.			22.0						
BH-M20B	11	4.00		D		Light brown silty fine and medium SAND.			20.0						
BH-M20B	14	5.00		D		Light brown silty fine and medium SAND.			20.0						
BH-M20B	17	6.00		D		Light brown silty fine SAND.			32.0						

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test | Liquid Limit | Particle density

Linear measurement unless : | 4pt cone unless : | sp - small pyknometer

wd - water displacement | 1pt - single point test | gj - gas jar

wi - immersion in water | NP - Non Plastic

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QC From No: R1

Approved By: Administrator

Table 1 sheet 4

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
BH-M22	1	0.00	1.00	B		Dark brown slightly sandy slightly gravelly SILT.			60.0	45	93	80	13		ME
BH-M22	2	1.00		D		Dark brown silty SAND and GRAVEL. Sand is medium and coarse.			23.0						NP
BH-M22	5	2.00		D		Brown silty very gravelly medium SAND.			18.0						NP
BH-M22	8	3.00		D		Brown silty very gravelly medium SAND.			17.0						NP
BH-M22	11	4.00		D		Light brown silty SAND and GRAVEL. Sand is medium.			12.0						NP
BH-M23	1	0.00	1.00	B		Brown silty very gravelly SAND.			17.0	38					
BH-M23	2	1.00		D		Light brown silty very gravelly medium SAND.			14.0						
BH-M23	5	2.00		D		Light brown very silty very gravelly medium SAND.			12.0						
BH-M23	8	3.00		D		Light brown very silty very gravelly medium SAND.			12.0						
BH-M23	11	4.00		D		Light brown very silty very gravelly medium SAND.			13.0						
BH-M24	1	0.00	1.00	B		Black slightly sandy slightly gravelly PEAT.			416.0						
BH-M24	2	1.00		D		Dark brown slightly sandy slightly gravelly PEAT.			138.0						
BH-M24	5	2.00		D		Dark brown slightly sandy slightly gravelly PEAT.			403.0						
BH-M24	8	3.00		D		Dark brown silty very sandy GRAVEL.			25.0						NP
BH-M24	11	4.00		D		Dark brown silty very sandy GRAVEL.			21.0	17					NP
BH-M24	14	5.00		D		Dark brown silty very sandy medium and coarse GRAVEL.			25.0						NP
BH-M24	17	6.00		D		Dark brown slightly sandy gravelly SILT.			37.0						
BH-M25	1	0.00	1.00	B		Dark brown slightly sandy gravelly SILT (TOPSOIL).			25.0	37					NP
BH-M25	2	1.00		D		Light brown silty SAND and GRAVEL.			25.0	38	61	46	15		MH
BH-M25	5	2.00		D		Light brown slightly sandy gravelly SILT.			27.0	33	61	43	18		MH
BH-M25	8	3.00		D		Light brown silty SAND and GRAVEL.			27.0		62	50	12		CH
BH-M25	11	4.00		D		Light brown slightly silty very sandy medium GRAVEL.			8.9	6					NP
BH-M25	14	5.00		D		Bluish-grey very sandy fine and medium GRAVEL.			8.5						NP
BH-M25	17	6.00		D		Light brown slightly silty very sandy GRAVEL. Sand is coarse.			6.9						
BH-M26	2	1.00		D		Dark brown slightly gravelly sandy SILT.			14.0						
BH-M27	2	1.00		D		Dark brown very gravelly SAND.			204.0						

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key: w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: wd - water displacement; wi - immersion in water

Liquid Limit: 4pt cone unless :; 1pt - single point test; NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

Linear measurement unless :

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QC From No: R1

Approved By: Administrator

Table 1 sheet 5

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
BH-M27	5	2.00		D		Light brown very silty very gravelly SAND.			35.0		66	47	19		MH
BH-M27	8	3.00		D		Greyish-light-brown slightly sandy gravelly SILT.			16.0	33	40	30	10		MI
BH-R1	1	0.00	1.00	B		Black PEAT: H9, Er, B1, N0, R2, F1, W0, A1, TV1, TH2, P1			313.0						
BH-R1	2	1.00		D		Light brown very silty very gravelly medium SAND.			16.0						
BH-R1	5	2.00		D		Light brown silty very gravelly SAND.			16.0						
BH-R1	8	3.00		D		Light brown silty very gravelly medium SAND.			22.0						
BH-R1	11	4.00		D		Light brown very silty very gravelly medium SAND.			16.0						
BH-R2	1	0.00	1.00	B		Dark brown PEAT: H9, Er, B3, N0, R2, F2, W0, A1, TV0, TH0, P0.			546.0						
BH-R2	2	1.00		D		Brown very silty very gravelly medium SAND.			29.0						
BH-R2	5	2.00		D		Brown very gravelly very silty medium SAND.			29.0						
BH-R2	8	3.00		D		Light brown very silty very gravelly medium SAND.			16.0						
BH-T01	2	1.00		D		Grey slightly sandy gravelly SILT.			17.0	45					
BH-T01	5	2.00		D		Grey slightly sandy gravelly SILT.			15.0	37	32	22	10		CL
BH-T01	8	3.00		D		Grey slightly sandy gravelly SILT.			13.0						
BH-T02	1	0.00	1.00	B		Brown very silty m+c SAND and f+m GRAVEL.			29.0	35					
BH-T02	2	1.00		D		Brown silty very sandy medium GRAVEL.			18.0						
BH-T02	5	2.00		D		Light brown slightly gravelly slightly sandy SILT.			21.0						
BH-T02	8	3.00		D		Light brown silty very sandy GRAVEL.			14.0						NP
BH-T02	11	4.00		D		Greyish-light brown Greyish-brown slightly sandy gravelly SILT.			17.0		33	22	11		CL
BH-T02	14	5.00		D		Greyish light brown very silty very sandy medium GRAVEL.			17.0						
BH-WH02	2	1.00		D		Grey slightly sandy gravelly SILT.			15.0						
BH-WH02A	2	1.00		D		Grey very silty medium SAND and medium GRAVEL.			12.0	48	25	16	9	2.7-gj	CL
BH-WH02A	5	2.00		D		Blusih-grey slightly sandy slightly silty medium GRAVEL.			3.6						
BH-WH1	2	1.00		D		Dark brown very silty very sandy medium GRAVEL.			11.0						
BH-WH1	5	2.00		D		Greyish-brown very silty very sandy medium GRAVEL.			8.2	32					NP
TP-LG1	2	0.50	1.00	D		Light brown slightly gravelly slightly sandy SILT.			36.0		52	32	20		MH

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key: w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: Linear measurement unless : wd - water displacement; wi - immersion in water

Liquid Limit: 4pt cone unless : 1pt - single point test; NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

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QC From No: R1

Approved By: Administrator

Table 1 sheet 6

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample					Soil Description	Density bulk / dry Mg/m3		w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
	Ref	Top	Base	Type											
TP-LG1	4	1.50	2.00	D		Light brown slightly gravelly slightly sandy SILT.			42.0		58	32	26		MH
TP-LG1	6	2.50	3.00	D		Light brown slightly gravelly slightly sandy SILT.			39.0		48	30	18		MI
TP-LG10	2	0.50	1.00	D		Brown slightly gravelly slightly sandy SILT. Sand is medium.			48.0		59	39	20		MH
TP-LG2	2	0.50	1.00	D		Orangish-light-brown slightly sandy SILT.			48.0		53	35	18		MH
TP-LG2	4	1.80	2.20	D		Grey slightly sandy gravelly SILT.			22.0		36	24	12		CI
TP-LG3	2	0.30	0.60	D		Greyish dark-brown slightly sandy gravelly SILT.			18.0	42	57	35	22		MH
TP-LG4	2	0.50	1.00	D		Bark brown slightly gravelly slightly sandy SILT.			55.0		82	46	36		MV
TP-LG4	4	1.50	2.00	D		Dark brown slightly gravelly slightly sandy SILT.			48.0		56	34	22		MH
TP-LG5	2	0.50	1.00	D		Dark brown sandy very silty medium GRAVEL.			17.0		43	28	15		MI
TP-LG5	4	1.40	1.80	D		Light brown slightly gravelly slightly sandy SILT.			35.0		52	28	24		CH
TP-LG5	6	2.00	2.40	D		Greyish-orange-brown slightly gravelly slightly sandy SILT.			39.0		55	30	25		MH
TP-LG6	2	0.40	0.80	D		Orangish-brown slightly gravelly slightly sandy SILT.			33.0		56	31	25		MH
TP-LG7	2	0.50	1.00	D		Dark brown sandy very silty medium GRAVEL.			24.0		57	35	22		MH
TP-LG8	2	0.40	0.80	D		Orangish-brown slightly gravelly slightly sandy SILT.			36.0		60	34	26		MH
TP-LG9	2	0.50	0.90	D		Brown slightly gravelly slightly sandy SILT.			42.0		65	41	24		MH
TP-LG9	4	1.10	1.40	D		Dark brown sandy very silty medium and coarse GRAVEL.			29.0		62	39	23		MH
TP-LR1	2	0.50	1.00	D		Dark brown slightly sandy slightly gravelly SILT.			41.0		50	32	18		MH
TP-LR2	2	0.50	1.00	D		Orangish-brown slightly gravelly slightly sandy SILT.			37.0		50	31	19		MI
TP-LR2	4	2.00	2.50	D		Orangish-light-brown slightly gravelly slightly sandy SILT.			28.0		36	25	11		MI
TP-LR3	2	0.50	1.00	D		Orangish-light-brown slightly gravelly slightly sandy SILT.			35.0		53	29	24		CH
TP-LR4	2	0.50	1.00	D		Dark brown slightly gravelly slightly sandy SILT.			25.0		54	32	22		MH
TP-LR4	4	1.50	2.00	D		Brown slightly gravelly sandy SILT. Sand is medium.			30.0		48	29	19		MI
TP-LR5	2	0.50	1.00	D		Dark brown slightly gravelly slightly sandy SILT.			21.0		47	26	21		CI
TP-LR5	4	1.50	1.80	D		Orangish-brown slightly gravelly slightly sandy SILT.			31.0		49	30	19		MI
TP-LR5	6	3.50	4.00	D		Dark brown slightly gravelly slightly sandy SILT.			34.0		44	29	15		MI
TP-LR6	2	0.50	1.00	D		Dark brown slightly gravelly slightly sandy SILT.			39.0		49	33	16		MI

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: Linear measurement unless : wd - water displacement; wi - immersion in water

Liquid Limit: 4pt cone unless : 1pt - single point test; NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

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Approved By: Administrator

Table 1 sheet 7

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
TP-M01	2	0.50	1.00	D		Brown slightly gravelly slightly sandy SILT.			33.0		52	36	16		MH
TP-M01	4	1.50	2.00	D		Brown very silty SAND and GRAVEL.			20.0		35	27	8		ML
TP-M02	2	0.60	1.10	D		Orangish-brown very silty very sandy coarse GRAVEL. Sand is medium.			15.0		28	17	11		CL
TP-M03	2	0.50	1.00	D		Greyish-brown slightly gravelly slightly sandy SILT.			33.0		40	21	19		CI
TP-M04	2	0.50	1.00	D		Light brown slightly gravelly sandy SILT. Sand is medium.			31.0		42	27	15		MI
TP-M04	4	2.00	2.50	D		Grey silty very sandy medium GRAVEL.			7.2						NP
TP-M05	2	0.50	1.00	D		Dark brown very silty SAND and GRAVEL.			16.0		46	30	16		MI
TP-M05	4	1.50	2.00	D		Grey very silty SAND and GRAVEL.			14.0		20	13	7		CL
TP-M06	2	0.50	1.00	D		Dark brown slightly gravelly slightly sandy SILT.			43.0		64	36	28		MH
TP-M06	4	1.50	2.00	D		Grey silty very sandy medium GRAVEL.			10.0						NP
TP-M07	2	0.50	1.00	D		Light brown slightly gravelly sandy SILT. Sand is medium.			17.0		26	16	10		CL
TP-M07	4	1.50	2.00	D		Light brown slightly gravelly sandy SILT. Sand is medium.			11.0		21	13	8		CL
TP-M08	2	0.30	0.60	D		Dark brown slightly sandy gravelly SILT.			33.0		60	41	19		MH
TP-M09	2	0.50	1.00	D		Dark brown slightly gravelly slightly sandy SILT.			58.0		57	41	16		MH
TP-M10	2	0.50	1.00	D		Dark brown slightly sandy gravelly SILT. Gravel is medium.			32.0		50	33	17		MI
TP-M100	1	0.50	0.60	B		Light brown silty very sandy fine and medium GRAVEL.			7.9	29					
TP-M100	2	1.50	1.60	B		Dark brown silty very sandy medium GRAVEL.			130.0	16	167	105	62		MEO
TP-M100	3	2.00	2.10	B		Grey very silty very gravelly SAND.			23.0	49					
TP-M101	1	0.60	0.70	B		Light brown silty sandy fine and medium GRAVEL.			7.8	13					
TP-M101	2	1.60	1.70	B		Light brown silty very sandy fine and medium GRAVEL.			8.4	15					
TP-M101	3	2.60	2.70	B		Light brown silty medium and corse SAND and medium GRAVEL.			8.8	28					
TP-M102	2	0.50	1.00	D		Light brown slightly gravelly sandy SILT.			21.0		33	20	13		CL
TP-M102	4	1.50	2.00	D		Light brown slightly gravelly sandy SILT.			11.0	61	21	14	7		CL
TP-M103	2	0.50	1.00	D		Light brown slightly sandy silty medium GRAVEL.			13.0	36					NP
TP-M11	2	0.50	1.00	D		Dark brown slightly gravelly sandy SILT. Sand is medium.			19.0		35	29	6		ML
TP-M11	4	1.50	2.00	D		Orangish-light brown very sandy very silty medium GRAVEL.			18.0						

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test | Liquid Limit | Particle density

Linear measurement unless : | 4pt cone unless : | sp - small pyknometer

wd - water displacement | 1pt - single point test | gj - gas jar

wi - immersion in water | NP - Non Plastic

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QC From No: R1

Approved By: Administrator

Table 1 sheet 8

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
TP-M12	4	1.50	2.00	D		Orangish-brown slightly gravelly slightly sandy SILT.			35.0		51	30	21		MH
TP-M12	6	2.50	2.90	D		Light brown slightly sandy gravelly SILT.			24.0		36	25	11		MI
TP-M13	4	1.80	2.30	D		Dark grey very sandy very silty medium and coarse GRAVEL.			8.6		23	15	8		CL
TP-M14	2	0.50	1.00	D		Dark brown very silty SAND and GRAVEL.			43.0						
TP-M14	4	1.70	2.20	D		Black and cream slightly gravelly sandy SILT / MARL.			130.0						NP
TP-M15	2	0.50	1.00	D		Orangish-brown slightly gravelly slightly sandy SILT.			35.0		48	34	14		MI
TP-M15	4	1.50	2.00	D		Brown very sandy very silty coarse GRAVEL.			21.0		36	26	10		MI
TP-M15	6	2.50	2.80	D		Light brown slightly sandy gravelly SILT. Gravel is coarse.			33.0		42	29	13		MI
TP-M16	2	0.50	1.00	D		Black slightly sandy slightly gravelly PEAT			579.0						
TP-M16	4	1.80	2.30	D		Grey slightly gravelly sandy SILT. Sand is medium.			37.0						NP
TP-M16	6	3.00	3.50	D		Grey slightly gravelly sandy SILT. Sand is medium and fine.			28.0						NP
TP-M17	2	0.50	1.00	D		Light brown silty very gravelly SAND.			13.0						NP
TP-M17	4	1.50	2.00	D		Greyish-brown silty very sandy medium GRAVEL.			9.8						NP
TP-M18	2	0.50	1.00	D		Dark grey very silty very sandy fine and medium GRAVEL.			15.0						
TP-M18	4	1.50	2.00	D		Dark brown slightly sandy slightly gravelly SILT.			295.0						
TP-M18	6	2.50	2.90	D		Dark grey very gravelly very silty medium SAND.			23.0						NP
TP-M19	2	0.50	1.00	D		Dark brown silty very sandy fine and medium GRAVEL.			21.0						
TP-M19	4	1.50	2.00	D		Dark brown slightly gravelly sandy SILT.			47.0		41	32	9		MI
TP-M19	6	2.50	3.00	D		Dark brown PEAT.			542.0						
TP-M20	2	0.50	1.00	D		Light brown slightly gravelly sandy SILT.			25.0		35	27	8		ML
TP-M20	4	1.50	2.00	D		Black PEAT.			299.0						
TP-M20	6	2.50	3.00	D		Greyish-black very sandy very silty coarse GRAVEL.			48.0						NP
TP-M21	2	0.50	1.00	D		Light brown very silty SAND and GRAVEL.			30.0		58	35	23		MH
TP-M21	4	1.50	2.00	D		Dark brown PEAT.			386.0						
TP-M21	6	2.80	3.20	D		Dark brown silty very sandy medium GRAVEL.			22.0						NP
TP-M22	2	0.50	1.00	D		Light brown silty SAND and GRAVEL.			9.0						NP

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: Linear measurement unless : wd - water displacement; wi - immersion in water

Liquid Limit: 4pt cone unless : 1pt - single point test; NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

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QC From No: R1

Approved By: Administrator

Table 1 sheet 9

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk / dry Mg/m3		w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
TP-M22	4	2.50	3.00	D		Dark brown PEAT.			327.0						
TP-M23	2	0.50	1.00	D		Dark brown very silty GRAVEL and SAND.			38.0		82	53	29		MV
TP-M23	4	2.00	2.50	D		Grey slightly sandy gravelly SILT.			15.0		31	20	11		CL
TP-M24	2	0.50	1.00	D		Dark brown very gravelly very silty SAND.			19.0						
TP-M24	4	1.50	2.00	D		Dark grey very sandy very silty medium GRAVEL.			420.0						
TP-M24	6	3.00	3.40	D		Dark grey very sandy very silty medium GRAVEL.			12.0		24	16	8		CL
TP-M25	2	0.50	1.00	D		Brown slightly gravelly sandy SILT.			35.0		65	40	25		MH
TP-M25	4	2.00	2.50	D		Brown slightly gravelly sandy SILT.			173.0						
TP-M25	6	3.00	3.50	D		Grey sandy SILT. Sand is fine.			43.0						NP
TP-M26	2	0.50	1.00	D		Dark grey very silty very sandy fine and medium GRAVEL.			33.0		79	67	12		MV
TP-M26	4	2.00	2.50	D		Black PEAT.			119.0						
TP-M26	6	3.00	3.50	D		Light brown slightly sandy SILT.			147.0						NP
TP-M27	2	0.50	1.00	D		Dark brown very silty very sandy medium GRAVEL.			12.0						
TP-M27	4	1.50	1.90	D		Light brown very silty very sandy fine and medium GRAVEL.			17.0		29	20	9		CL
TP-M28	2	0.50	1.00	D		Light brown silty very sandy medium GRAVEL.			4.6						
TP-M28	4	1.50	2.00	D		Brown slightly gravelly slightly sandy SILT.			52.0		60	32	28		MH
TP-M28	6	2.50	3.00	D		Light brown very silty SAND and GRAVEL.			11.0		24	18	6		ML
TP-M29	2	0.40	0.80	D		Dark brown silty very sandy medium GRAVEL.			7.4						
TP-M29	4	1.50	2.00	D		Light slightly sandy gravelly SILT. Gravel is medium.			18.0		40	24	16		MI
TP-M30	2	0.50	1.00	D		Dark brown very gravelly very silty SAND.			30.0						
TP-M30	4	2.50	3.00	D		Light brown slightly sandy SILT.			24.0		38	23	15		CI
TP-M30A	2	0.50	1.00	D		Dark brown very silty very gravelly SAND.			16.0						
TP-M30A	4	1.50	2.00	D		Black PEAT.			127.0						
TP-M30A	6	3.00	3.30	D		Grey gravelly very silty fine and medium SAND.			25.0						NP
TP-M30B	2	0.50	1.00	D		Light brown very silty very sandy medium GRAVEL.			19.0						
TP-M30B	4	2.50	3.00	D		Black PEAT.			287.0						

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key: w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: Linear measurement unless : wd - water displacement; wi - immersion in water

Liquid Limit: 4pt cone unless : 1pt - single point test; NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

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QC From No: R1

Approved By: Administrator

Table 1 sheet 10

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk / dry Mg/m3		w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
TP-M30C	2	0.50	1.00	D		Brown slightly silty sandy SILT. Sand is medium.			40.0		69	55	14		MH
TP-M30C	4	1.50	2.00	D		Light brown very silty medium SAND and medium GRAVEL.			12.0		28	21	7		CL
TP-M31	2	0.50	1.00	D		Brown very gravelly very silty medium SAND.			22.0		42	25	17		CI
TP-M31	4	1.50	1.80	D		Brown very silty very gravelly SAND.			14.0		37	27	10		MI
TP-M32	2	0.50	1.00	D		Dark brown slightly gravelly sandy SILT.			41.0		59	32	27		MH
TP-M32	4	2.00	2.50	D		Light brown very silty SAND and GRAVEL. Gravel is medium.			15.0		29	19	10		CL
TP-M33	2	0.40	0.80	D		Brown very gravelly very silty medium SAND.			24.0		49	34	15		MI
TP-M33	4	1.20	1.60	D		Brown very silty very sandy medium GRAVEL.			23.0						NP
TP-M34	2	0.50	1.00	D		Brown silty very sandy coarse GRAVEL.			7.1		48	35	13		MI
TP-M34	4	1.50	2.00	D		Brown silty very sandy GRAVEL.			8.7						NP
TP-M35	2	0.50	1.00	D		Brown very gravelly very silty SAND.			27.0		58	44	14		MH
TP-M36	2	0.50	1.00	D		Light brown silty very sandy medium GRAVEL.			23.0		53	40	13		MH
TP-M37	2	0.40	0.80	D		Grey very silty very gravelly SAND.			18.0						
TP-M38	2	0.50	1.00	D		Greyish-brown very silty very sandy medium GRAVEL.			14.0		31	22	9		CL
TP-M38	4	1.50	2.00	D		Dark grey very silty very sandy medium and coarse GRAVEL.			8.4		23	16	7		CL
TP-M39	2	0.50	1.00	D		Black PEAT.			306.0						
TP-M39	4	1.50	2.00	D		Cream sandy SILT. Sand is fine.			61.0						NP
TP-M39	6	2.50	3.00	D		Light brown sandy SILT. Sand is medium and fine.			24.0						
TP-M40	2	0.50	1.00	D		Light brown very silty very gravelly SAND.			10.0						NP
TP-M40	4	1.50	2.00	D		Grey slightly sandy slightly gravelly SILT.			11.0		19	13	6		ML
TP-M41	2	0.50	1.00	D		Dark brown slightly sandy PEAT.			577.0						
TP-M41	4	3.00	3.50	D		Dark grey gravelly silty medium SAND.			21.0						NP
TP-M42	2	0.50	1.00	D		Light brown gravelly silty medium SAND.			24.0						NP
TP-M42	4	2.50	3.00	D		Light brown silty fine and medium SAND.			28.0						NP
TP-M44	2	0.50	1.00	D		Light brown slightly gravelly sandy SILT.			11.0						NP
TP-M44	4	2.00	2.50	D		Light brown gravelly very silty SAND.			9.4						NP

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key: w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: Linear measurement unless : wd - water displacement; wi - immersion in water

Liquid Limit: 4pt cone unless : 1pt - single point test; NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

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Approved By: Administrator

Table 1 sheet 11

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk / dry Mg/m3		w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
TP-M45	2	0.50	0.90	D		Brown very silty very gravelly SAND.			26.0		60	42	18		MH
TP-M45	4	1.50	2.00	D		Dark brown slightly sandy PEAT.			486.0						
TP-M45	6	3.00	3.50	D		Light brown silty very sandy medium GRAVEL.			11.0						NP
TP-M46	2	0.50	1.00	D		Brown very silty SAND and GRAVEL. Gravel is medium.			25.0		54	43	11		MH
TP-M46	4	2.00	2.50	D		Dark brown slightly sandy PEAT.			453.0						
TP-M46	6	3.00	3.50	D		Greyish-brown slightly gravelly silty medium SAND.			29.0						NP
TP-M47	2	0.50	1.00	D		Light brown very gravelly very silty SAND.			24.0		30	26	4		ML
TP-M47	4	1.50	2.00	D		Grey very silty very gravelly SAND.			10.0						NP
TP-M49	2	0.50	1.00	D		Brown silty coarse SAND and medium GRAVEL.			21.0		63	44	19		MH
TP-M49	4	2.00	2.50	D		Dark grey silty very sandy fine and medium GRAVEL.			11.0						
TP-M50	2	0.40	0.80	D		Dark brown slightly gravelly slightly sandy SILT.			47.0		65	50	15		MH
TP-M50	2	1.30	1.70	D		Light brown very silty very sandy medium GRAVEL.			8.2		26	21	5		ML
TP-M51	2	0.50	1.00	D		Dark brown silty very sandy medium GRAVEL.			11.0						
TP-M51	4	1.50	2.00	D		Light brown slightly silty coarse SAND and f+m GRAVEL.			12.0						
TP-M51	4	2.50	3.00	D		Grey slightly silty medium SAND.			30.0						
TP-M52	2	0.40	0.80	D		Black-brown silty (PEATY) very sandy GRAVEL.			143.0		319	218	101		MEO
TP-M52	4	1.50	2.00	D		Dark brown silty very sandy medium and fine GRAVEL.			21.0						
TP-M52	6	2.50	3.00	D		Light brown slightly sandy SILT.			25.0						
TP-M53	1	0.60	1.00	B		Dark brown silty m+c SAND and medium GRAVEL.			42.0						
TP-M53	3	2.00	2.50	B		Dark grey silty very sandy fine and medium GRAVEL.			11.0						
TP-M54	2	0.50	1.00	D		Light brown silty very gravelly coarse SAND.			13.0						
TP-M57	1	0.40	0.50	B		Dark brown silty very gravelly medium and coarse SAND.			40.0	45	93	60	33		ME
TP-M57	2	0.90	1.00	B		Brown silty coarse SAND and medium GRAVEL.			15.0	27					
TP-M57	3	2.50	2.60	B		Brown silty very sandy RAVEL. Sand is coarse.			10.0	15					
TP-M58	1	0.50	0.60	B		Brown silty very gravelly coarse SAND.			22.0	44	77	52	25		MV
TP-M58	2	0.80	0.90	B		Brown silty coarse SAND and medium GRAVEL.			12.0	24					

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: wd - water displacement; wi - immersion in water

Linear measurement unless : 4pt cone unless : 1pt - single point test; NP - Non Plastic

Liquid Limit

Particle density: sp - small pyknometer; gj - gas jar

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Approved By: Administrator

Table 1 sheet 12

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk / dry Mg/m3		w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
TP-M58	3	2.00	2.10	B		Light brown slightly silty gravelly medium SAND.			7.5	40					
TP-M61	1	0.40	0.50	B		Dark brown very silty very gravelly SAND.			18.0	45	32	20	12		CL
TP-M61	2	1.40	1.50	B		Dark brown silty very gravelly medium and coarse SAND.			32.0	46	83	56	27		MV
TP-M61	3	2.40	2.50	B		Brown very silty very gravelly SAND. Gravel is fine.			18.0	48					
TP-M64	1	0.50	0.60	B		Brown silty coarse SAND and medium GRAVEL.			9.6	18					
TP-M64	3	1.10	1.20	B		Greyish-brown very silty very sandy medium GRAVEL.			11.0	38					
TP-M64	4	2.50	2.60	B		Greyish-brown very silty SAND and GRAVEL. Gravel is medium.			8.9	45					
TP-M65	1	0.30	0.40	B		Light brown silty very sandy fine and medium GRAVEL. Sand is coarse.			4.8	18					
TP-M65	2	1.10	1.20	B		Light brown silty very sandy fine and medium GRAVEL.			5.0	23					
TP-M66	1	0.50	0.60	B		Light brown very silty very gravelly SAND.			7.2	42					
TP-M66	2	1.50	1.60	B		Light brown very silty very gravelly SAND.			8.0	44					
TP-M68	1	0.80	0.90	B		Brown silty SAND and GRAVEL. Sand is coarse.			11.0	32					
TP-M68	2	1.80	1.90	B		Brown silty very gravelly coarse SAND.			11.0	36					
TP-M68	3	2.60	2.70	B		Brown silty SAND and GRAVEL.			11.0	33					
TP-M69	1	0.50	0.60	B		Light brownish-grey gravelly silty SAND.			21.0	53					
TP-M69	2	1.50	1.60	B		Light brownish-grey very gravelly very silty SAND.			18.0	61					
TP-M69	3	2.40	2.50	B		Greyish-brown very gravelly very silty SAND.			16.0	52					
TP-M71	2	0.50	1.00	D		Brown silty very gravelly coarse and medium SAND.			17.0						NP
TP-M71	4	2.00	2.50	D		Brown silty very gravelly coarse and medium SAND.			13.0						NP
TP-M72	2	0.50	1.00	D		Dark brown silty coarse SAND and medium GRAVEL.			24.0						NP
TP-M72	4	1.50	2.00	D		Brown silty very gravelly coarse SAND. Gravel is fine.			15.0						NP
TP-M72	6	2.50	3.00	D		Brown silty coarse SAND and fine GRAVEL.			12.0						NP
TP-M73	2	0.50	1.00	D		Dark brown silty very sandy medium GRAVEL.			18.0						NP
TP-M73	4	1.50	2.00	D		Brown very silty very gravelly medium and coarse SAND.			16.0						NP
TP-M74	2	0.50	1.00	D		Dark brown slightly gravelly sandy SILT.			140.0		264	184	80		MEO
TP-M74	4	1.50	2.00	D		Light brown silty very gravelly medium and coarse SAND.			9.1						NP

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: wd - water displacement; wi - immersion in water

Linear measurement unless : 4pt cone unless : 1pt - single point test; NP - Non Plastic

Liquid Limit

Particle density: sp - small pyknometer; gj - gas jar

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QC From No: R1

Approved By: Administrator

Table 1

sheet 13

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
TP-M75	2	0.50	1.00	D		Black (peaty) slightly gravelly slightly sandy SILT.			76.0		120	83	37		MEO
TP-M75	4	2.00	2.50	D		Brwon silty very gravelly medium and coarse SAND.			20.0						NP
TP-M76	2	0.50	1.00	D		Brown silty very gravelly coarse and medium SAND.			23.0						NP
TP-M76	4	2.00	2.50	D		Brown slightly silty very gravelly coarse SAND. Gravel is fine.			9.4						
TP-M77	2	0.50	1.00	D		Brown very silty very gravelly medium and coarse SAND.			17.0						NP
TP-M77	4	1.50	2.00	D		Brown silty very gravelly medium and coarse SAND.			13.0						NP
TP-M78	2	0.50	1.00	D		Dark brown PEAT.			597.0						
TP-M79	2	0.50	1.00	D		Dark brown and black PEAT.			564.0						Peat / not enough sample
TP-M79	4	2.00	2.50	D		Brown slightly sandy slightly gravelly SILT.			133.0						
TP-M80	2	0.40	0.70	D		Brown silty very sandy medium GRAVEL.			22.0						NP
TP-M80	4	1.50	2.00	D		Dark brown slightly sandy slightly gravelly PEATY SILT.			125.0						
TP-M80	6	3.00	3.50	D		Light brown silty very gravelly SAND.			19.0						NP
TP-M81	2	0.60	1.00	D		Black and dark brown PEAT.			462.0						
TP-M81	4	2.50	3.00	D		Light brown very silty very gravelly SAND.			19.0						NP
TP-M82	2	0.50	1.00	D		Black and dark brown PEAT.			330.0						
TP-M82	4	1.50	2.00	D		Light brown very silty SAND and GRAVEL.			17.0		54	40	14		MH
TP-M83	2	0.50	1.00	D		Dark brown silty SAND and GRAVEL.			35.0		108	94	14		ME
TP-M83	4	1.50	2.00	D		Orangish-brown silty coarse SAND and medium GRAVEL.			40.0		142	92	50		MEO
TP-M84	2	0.50	1.00	D		Brown silty very gravelly coarse SAND.			33.0		100	72	28		ME
TP-M84	4	1.50	2.00	D		Brown silty coarse SAND and medium GRAVEL.			18.0						
TP-M85	2	0.50	1.00	D		Greyish-dark brown slightly sandy SILT.			119.0		340	213	127		MEO
TP-M85	4	2.50	3.00	D		Orangish-brown silty coarse SAND and medium GRAVEL.			18.0						
TP-M86	2	0.50	1.00	D		Dark brown PEAT.			720.0						
TP-M86	4	2.50	3.00	D		Dark brown PEAT.			537.0						
TP-M88	1	0.40	0.50	B		Dark brown silty very gravelly medium and coarse SAND.			69.0	36					
TP-M88	3	1.40	1.50	B		Dark brown PEAT.			633.0						

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: Linear measurement unless : wd - water displacement; wi - immersion in water

Liquid Limit: 4pt cone unless : 1pt - single point test; NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

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Approved By: Administrator

Table 1 sheet 14

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
TP-M88	4	2.40	2.50	B		Dark brown PEAT.			535.0						
TP-M89	1	0.50	0.60	B		Greyish-brown silty very sandy fine and medium GRAVEL.			4.8	20					
TP-M89	2	1.50	1.60	B		Dark brown PEAT.			699.0						
TP-M91	2	0.50	1.00	D		Light brown slightly silty sandy fine and medium GRAVEL.			7.7						NP
TP-M92	2	0.80	1.30	D		Grey very silty very gravelly SAND.			20.0						NP
TP-M93	2	0.50	1.00	D		Light brown silty very gravelly SAND.			10.0						NP
TP-M94	1	0.60	0.70	B		Light brown silty very sandy medium GRAVEL.			6.2	24					
TP-M94	2	1.60	1.70	D		Light rbwon slightly gravelly silty medium SAND.			8.8						
TP-M94	3	2.30	2.40	B		Light brown gravelly very silty fine SAND.			29.0	81					
TP-M95	1	0.60	0.70	B		Light brown silty very sandy medium GRAVEL.			15.0	40					
TP-M95	2	0.90	1.00	B		Light brown gravelly very silty fine and medium SAND.			22.0	77					
TP-M95	3	1.50	1.60	B		Light brown slightly gravelly sandy SILT.			21.0	78					
TP-M95	4	1.80	1.90	B		Light brown gravelly very silty fine and medium SAND.			22.0	75					
TP-M96	2	1.20	1.30	B		Dark brown silty gravelly medium SAND.			87.0	65	90	68	22		ME
TP-M97	1	0.50	0.60	B		Light brown silty SAND and GRAVEL.			15.0	37					
TP-M97	2	0.90	1.00	B		Dark brown very silty very sandy fine and medium GRAVEL.			116.0	41	171	105	66		MEO
TP-M97	3	1.30	1.40	B		Light brown very silty very gravelly SAND.			27.0	52					
TP-M98	1	0.30	0.40	B		Brown silty very gravelly SAND. Gravel is medium.			17.0	40	50	36	14		MH
TP-M98	3	1.30	1.40	B		Light brown silty very sandy GRAVEL.			14.0	32					
TP-M99	1	0.50	0.60	B		Light brown very gravelly very silty SAND.			14.0	55					
TP-M99	2	1.50	1.60	B		Light brown slightly sandy slightly gravelly SILT.			15.0	58	32	18	14		CL
TP-R01	2	0.50	1.00	D		Light brown gravelly very silty medium SAND.			636.0						
TP-R01	4	2.00	2.50	D		Light brown gravelly very silty medium SAND.			23.0						NP
TP-R02	2	0.60	1.00	D		Light brown very silty very gravelly medium and coarse SAND.			13.0						NP
TP-R02	4	1.50	2.00	D		Light brown very silty very gravelly medium SAND.			12.0						NP
TP-R03	2	0.50	1.00	D		Light brown very silty very gravelly medium SAND.			23.0						NP

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: wd - water displacement; wi - immersion in water

Linear measurement unless :

Liquid Limit: 4pt cone unless :; 1pt - single point test; NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

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QC From No: R1

Approved By: Administrator

Table 1 sheet 15

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
TP-R03	4	2.00	2.50	D		Brown very silty very gravelly medium SAND.			12.0						NP
TP-T01	2	0.50	1.00	D		Greyish-brown silty sandy coarse GRAVEL.			7.6						
TP-T02	2	0.50	1.00	D		Greyish-brown silty sandy medium and coarse GRAVEL.			5.6						
TP-T03	2	0.50	1.00	D		Light brown very silty very sandy GRAVEL.			21.0		38	28	10		MI
TP-T03	4	2.00	2.50	D		Brown silty very sandy fine and medium GRAVEL. Sand is coarse.			11.0		41	27	14		MI
TP-T03	6	4.00	4.50	D		Brown silty very sandy fine and medium GRAVEL. Sand is coarse.			18.0						NP
TP-T04	2	0.50	1.00	D		Brown very silty SAND and GRAVEL.			18.0		33	23	10		CL
TP-T04	4	1.50	2.00	D		Brown very silty very gravelly medium SAND.			19.0						NP
TP-WH01	2	0.50	0.90	D		Dark brown slightly gravelly slightly sandy SILT.			22.0		36	22	14		CI
TP-WH01	4	1.50	2.00	D		Dark brown slightly gravelly slightly sandy SILT.			22.0		32	22	10		CL

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: Linear measurement unless : wd - water displacement; wi - immersion in water

Liquid Limit: 4pt cone unless : 1pt - single point test; NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

Date Printed	Approved By	Table
05/03/2026 11:23	BCS	1
QC From No: R1	Administrator	sheet 16

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Summary of Classification Test Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type		Soil Description	Density bulk Mg/m3	Density dry Mg/m3	w %	Passing 425µm %	LL %	PL %	PI %	Particle density Mg/m3	Remarks
TP-M102	2	0.50	1.00	D		Light brown slightly gravelly sandy SILT.			21.0		33	20	13		CL
TP-M102	4	1.50	2.00	D		Light brown slightly gravelly sandy SILT.			11.0	61	21	14	7		CL
TP-M103	2	0.50	1.00	D		Light brown slightly sandy silty medium GRAVEL.			13.0	36					NP

All tests performed in accordance with BS1377:1990 unless specified otherwise

Key w = water content, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index

Density test: Linear measurement unless : wd - water displacement; wi - immersion in water

Liquid Limit: 4pt cone unless : 1pt - single point test; NP - Non Plastic

Particle density: sp - small pyknometer; gj - gas jar

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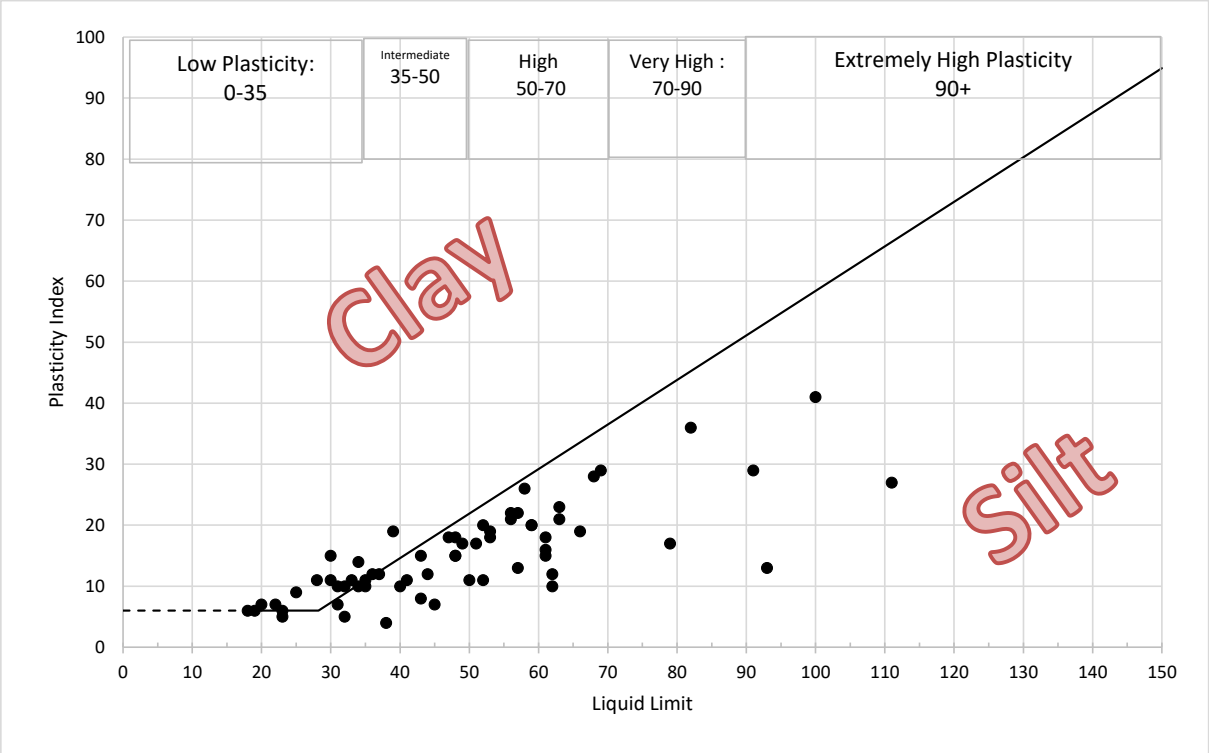
Approved By: DCD

Table 1 sheet 1

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

	Plasticity (A-Line) Chart	Project Number
Project Name:	**Lot 1, Lough Talt**	
Location:		2024SO105



Abreviations in the remarks column of the Classification Summary Sheet: C = Clay, M = Silt

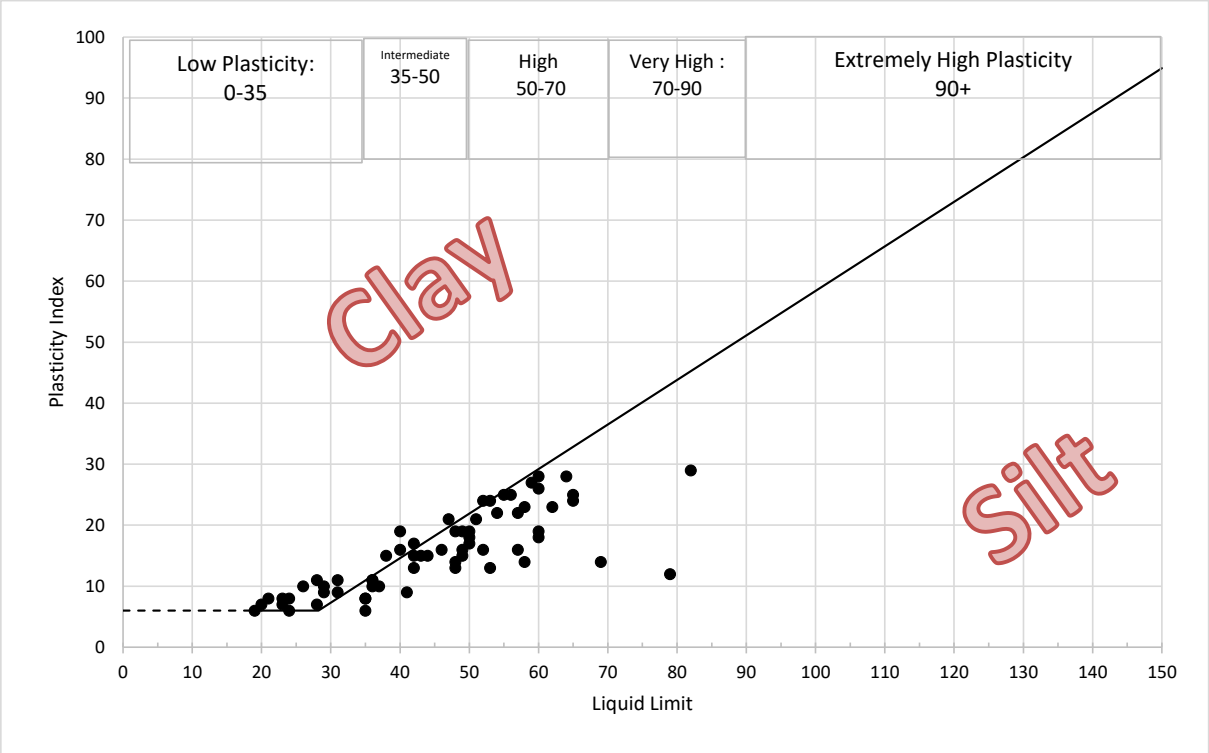
Plasticity abeviations: L = Low, I = Intermediate = H = High, V = Very High, E = Extremely High.

The letter O is added to the symbol of any material containing a significant proportion of organic material.

Chart taken from BS5930: 2010

QC Form: R1

	Plasticity (A-Line) Chart	Project Number
Project Name:	Lot 1, Lough Talt	
Location:		2024SO105



Abreviations in the remarks column of the Classification Summary Sheet: C = Clay, M = Silt

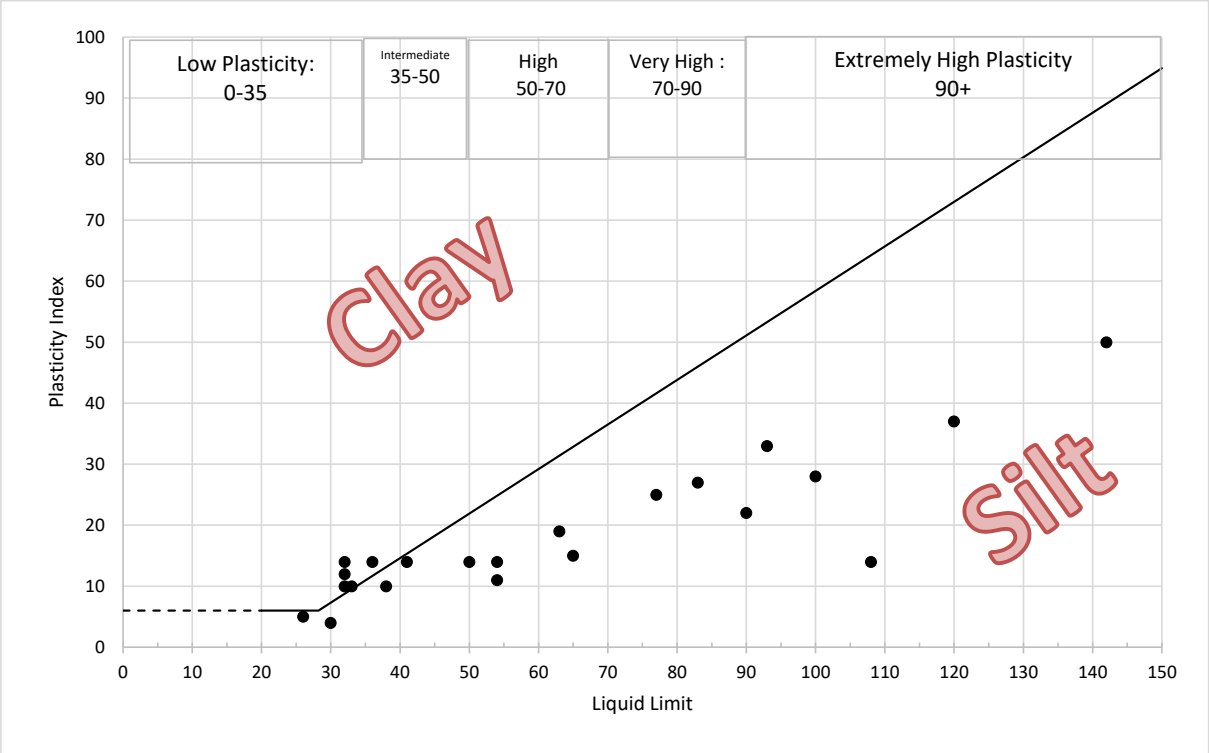
Plasticity abeviations: L = Low, I = Intermediate = H = High, V = Very High, E = Extremely High.

The letter O is added to the symbol of any material containing a significant proportion of organic material.

Chart taken from BS5930: 2010

QC Form: R1

	Plasticity (A-Line) Chart	Project Number
Project Name:	Lot 1, Lough Talt	
Location:		2024SO105



Abreviations in the remarks column of the Classification Summary Sheet: C = Clay, M = Silt

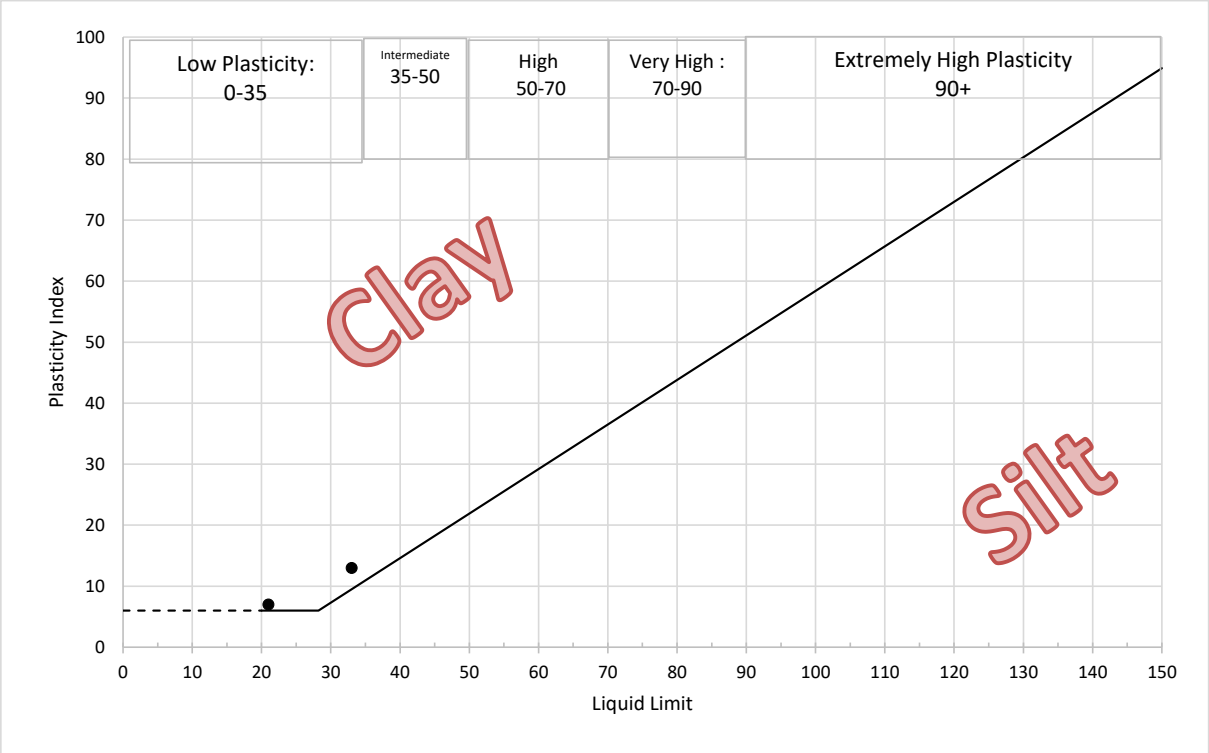
Plasticity abeviations: L = Low, I = Intermediate = H = High, V = Very High, E = Extremely High.

The letter O is added to the symbol of any material containing a significant proportion of organic material.

Chart taken from BS5930: 2010

QC Form: R1

	Plasticity (A-Line) Chart	Project Number
Project Name:	**Lot 1, Lough Talt**	
Location:		2024SO105



Abreviations in the remarks column of the Classification Summary Sheet: C = Clay, M = Silt

Plasticity abeviations: L = Low, I = Intermediate = H = High, V = Very High, E = Extremely High.

The letter O is added to the symbol of any material containing a significant proportion of organic material.

Chart taken from BS5930: 2010

QC Form: R1

Particle Density by Gas Jar Tests - Summary of Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample				Soil Description at test horizon	Particle Density Mg/m3	Remarks
	Ref	Top	Base	Type			
BH-WH02A	2	1.00		D	Grey very silty medium SAND and medium GRAVEL.	2.70	

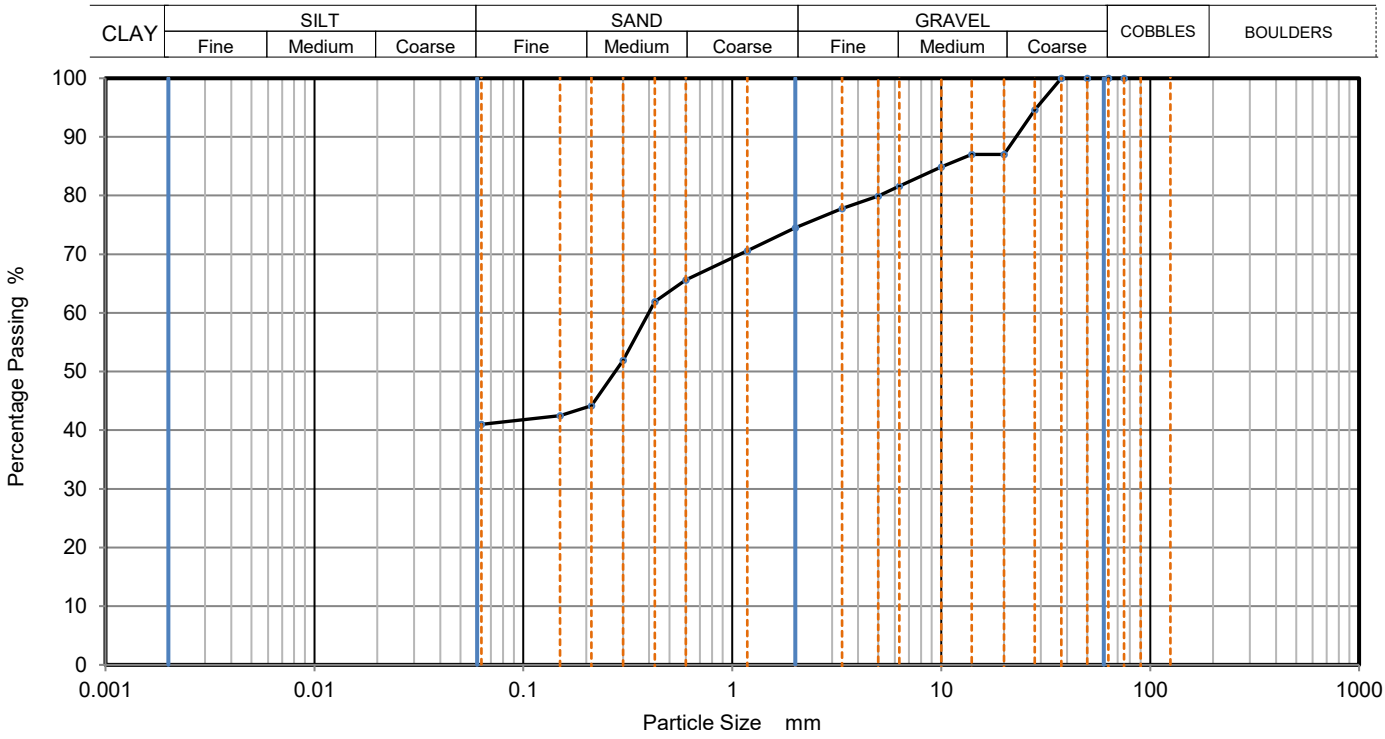
Notes
Tests performed in accordance with BS 1377 unless annotated otherwise
Gas Jar tests to BS1377: Part 2 : 1990, clause 8.2

BCS(11.11.25)

Date Printed	Table
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-FR01
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown slightly gravelly sandy SILT. Sand is medium.			Depth, m	1.20
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025090468



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	95		
20	87		
14	87		
10	85		
6.3	82		
5	80		
3.35	78		
2	75		
1.18	71		
0.6	66		
0.425	62		
0.3	52		
0.212	44		
0.15	43		
0.063	41		

Dry Mass of sample, g	662

Sample Proportions	% dry mass
Very coarse	0
Gravel	26
Sand	34
Fines <0.063mm	41

Grading Analysis		
D100	mm	
D60	mm	0.398
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

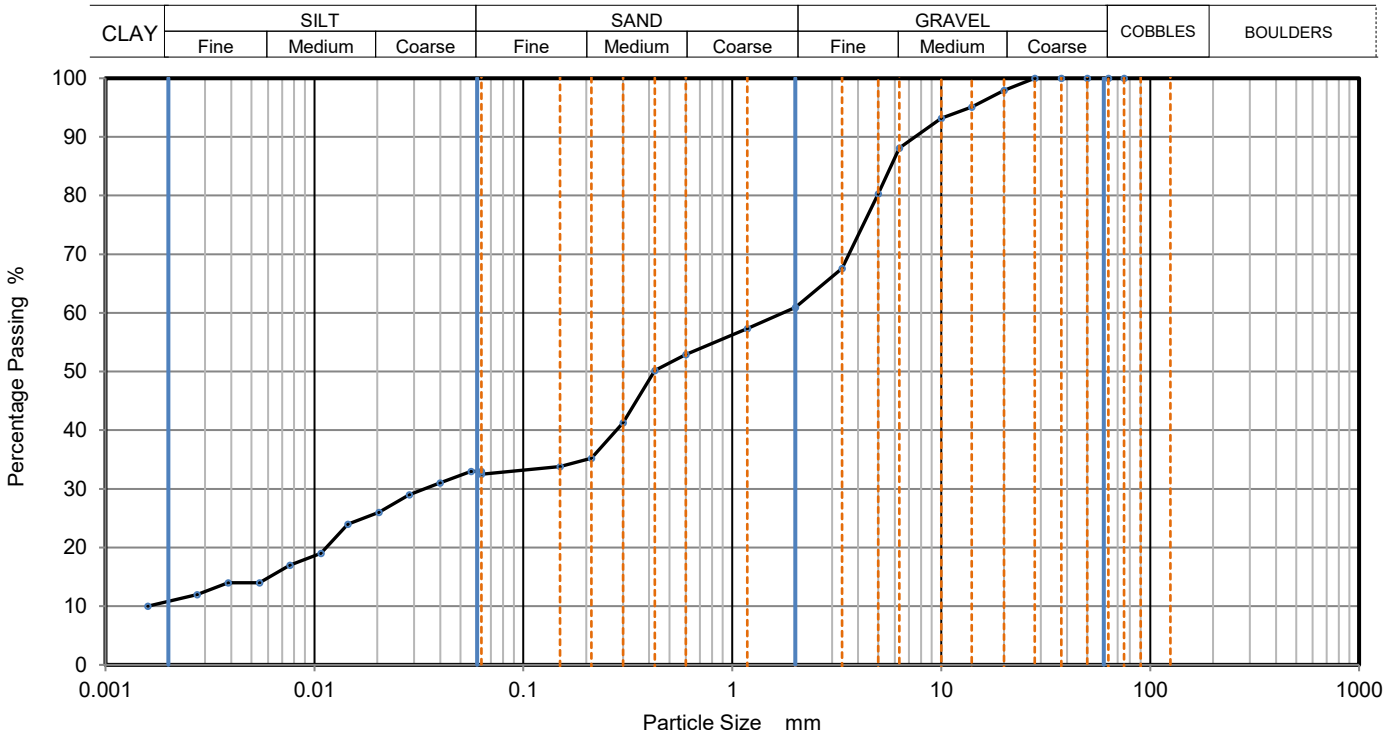
Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	Approved	Sheet printed	
		Dympna Darcy B.Sc.	10/11/2025 16:23	**1** QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-FR02
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Brown very sandy very silty fine GRAVEL.			Depth, m	1.20
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025090473



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	33
		0.0562	33
75	100	0.0400	31
63	100	0.0284	29
50	100	0.0203	26
37.5	100	0.0145	24
28	100	0.0107	19
20	98	0.0076	17
14	95	0.0055	14
10	93	0.0039	14
6.3	88	0.0027	12
5	80	0.0016	10
3.35	68		
2	61		
1.18	57		
0.6	53	Particle density (assumed)	
0.425	50	2.65 Mg/m3	
0.3	41		
0.212	35		
0.15	34		
0.063	33		

Dry Mass of sample, g	571

Sample Proportions	% dry mass
Very coarse	0
Gravel	39
Sand	28
Silt	22
Clay	11

Grading Analysis		
D100	mm	
D60	mm	1.76
D30	mm	0.0341
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

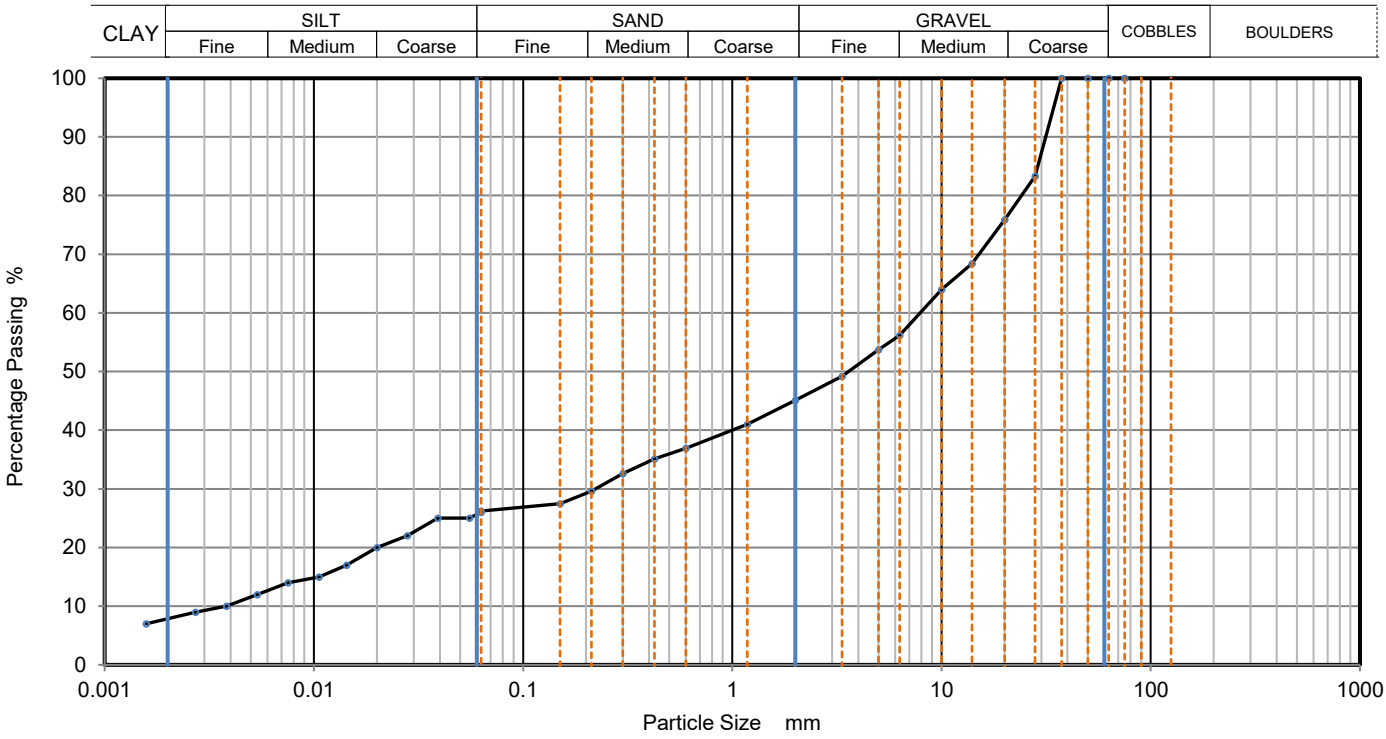
Preparation and testing in accordance with BS1377 unless noted below

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				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-LG2
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown slightly gravelly slightly sandy SILT.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202501313



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	26
		0.0554	25
75	100	0.0392	25
63	100	0.0280	22
50	100	0.0200	20
37.5	100	0.0143	17
28	83	0.0106	15
20	76	0.0075	14
14	68	0.0054	12
10	64	0.0038	10
6.3	56	0.0027	9
5	54	0.0016	7
3.35	49		
2	45		
1.18	41		
0.6	37	Particle density (assumed)	
0.425	35	2.65 Mg/m3	
0.3	33		
0.212	30		
0.15	28		
0.063	26		

Dry Mass of sample, g	760

Sample Proportions	% dry mass
Very coarse	0
Gravel	55
Sand	19
Silt	18
Clay	8

Grading Analysis		
D100	mm	
D60	mm	7.89
D30	mm	0.223
D10	mm	0.00384
Uniformity Coefficient		2100
Curvature Coefficient		1.6

Remarks

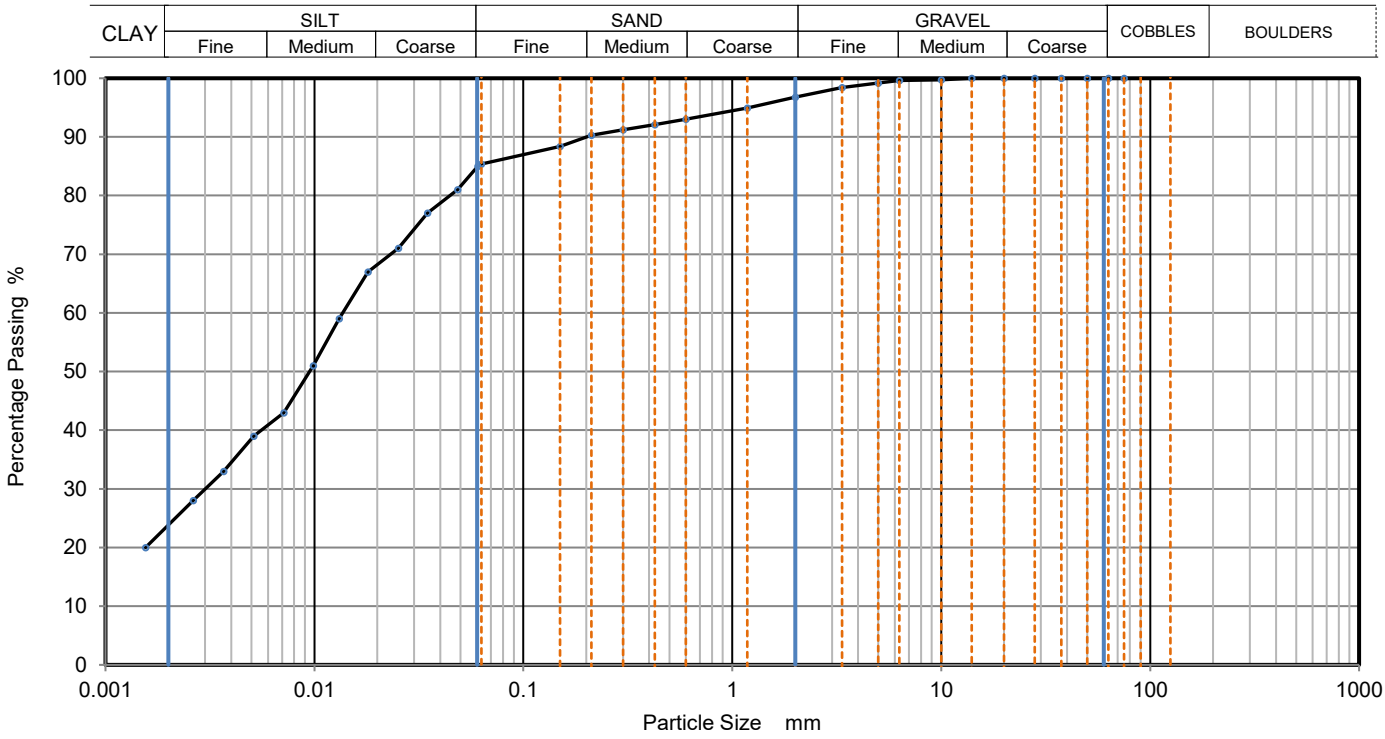
Preparation and testing in accordance with BS1377 unless noted below

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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-LG3
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown slightly gravelly slightly sandy SILT.			Depth, m	1.20
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025021373



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0606	85
		0.0485	81
75	100	0.0348	77
63	100	0.0252	71
50	100	0.0181	67
37.5	100	0.0131	59
28	100	0.0099	51
20	100	0.0071	43
14	100	0.0051	39
10	100	0.0037	33
6.3	100	0.0026	28
5	99	0.0016	20
3.35	98		
2	97		
1.18	95		
0.6	93	Particle density (assumed)	
0.425	92	2.65	Mg/m3
0.3	91		
0.212	90		
0.15	88		
0.063	85		

Dry Mass of sample, g	565

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	11
Silt	61
Clay	24

Grading Analysis		
D100	mm	
D60	mm	0.0137
D30	mm	0.00299
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

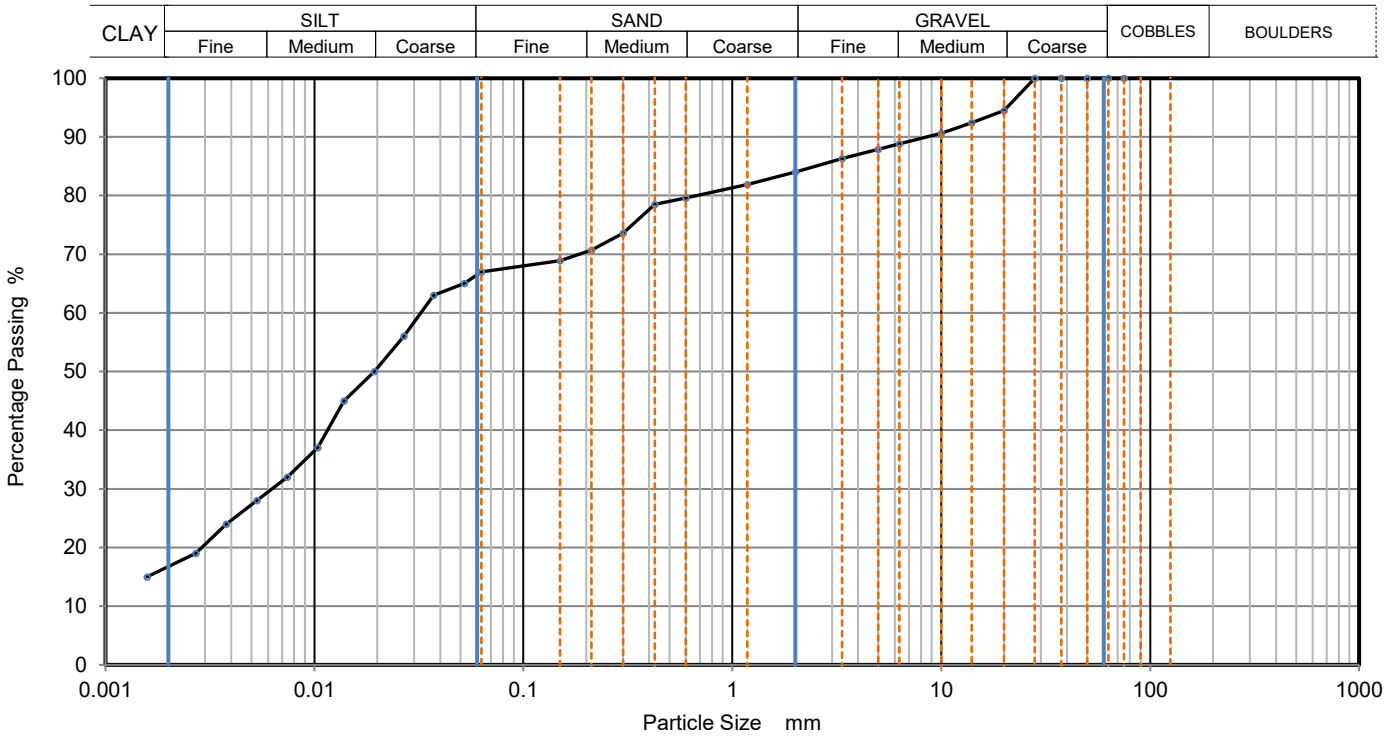
Preparation and testing in accordance with BS1377 unless noted below

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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-LG4
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Brown slightly gravelly slightly sandy SILT.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250113162



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	67
		0.0522	65
75	100	0.0372	63
63	100	0.0268	56
50	100	0.0193	50
37.5	100	0.0138	45
28	100	0.0104	37
20	95	0.0074	32
14	92	0.0053	28
10	91	0.0038	24
6.3	89	0.0027	19
5	88	0.0016	15
3.35	86		
2	84		
1.18	82		
0.6	80	Particle density (assumed)	
0.425	79	2.65 Mg/m3	
0.3	74		
0.212	71		
0.15	69		
0.063	67		

Dry Mass of sample, g	529

Sample Proportions	% dry mass
Very coarse	0
Gravel	16
Sand	17
Silt	50
Clay	17

Grading Analysis		
D100	mm	
D60	mm	0.0325
D30	mm	0.00614
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

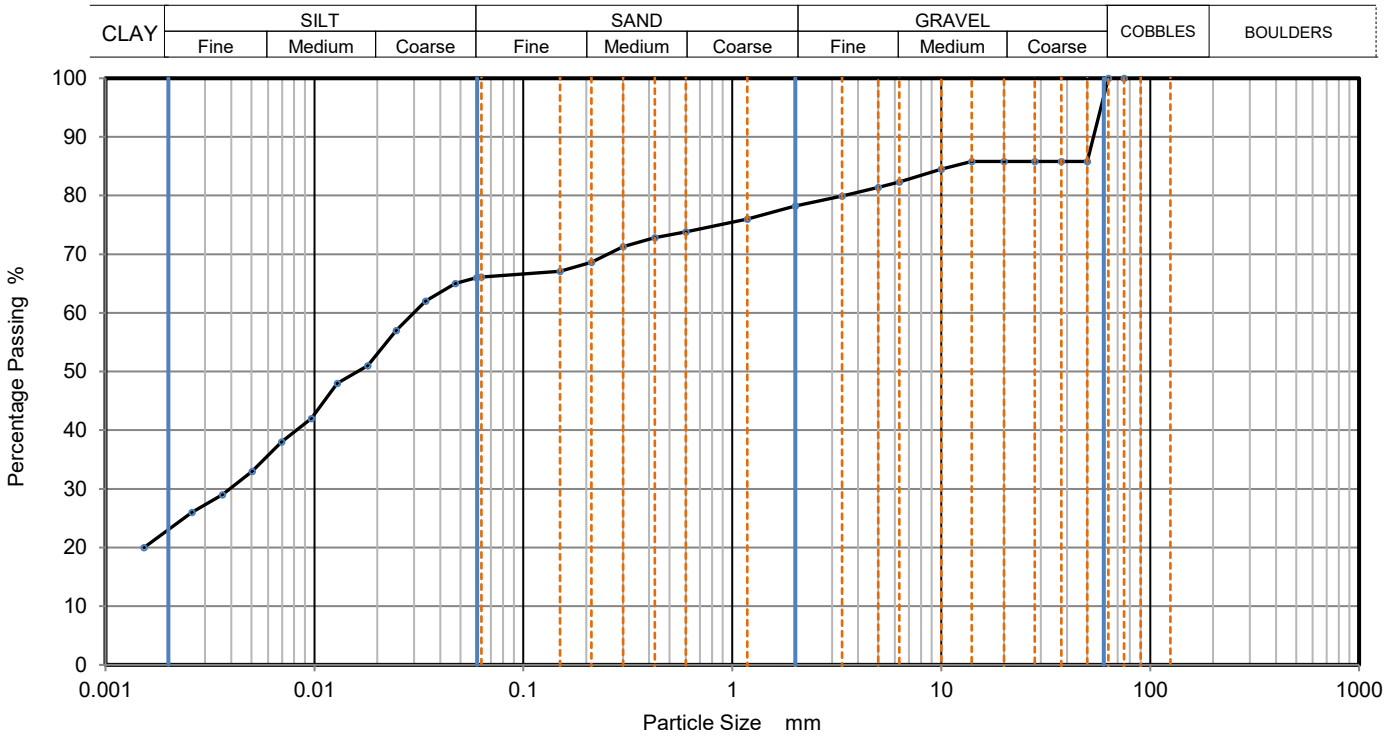
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-LG5
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Greyish-light-brown slightly sandy slightly gravelly SILT.			Depth, m	1.20
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250113167



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0597	66
		0.0473	65
75	100	0.0340	62
63	100	0.0246	57
50	86	0.0180	51
37.5	86	0.0129	48
28	86	0.0097	42
20	86	0.0070	38
14	86	0.0050	33
10	85	0.0036	29
6.3	82	0.0026	26
5	81	0.0015	20
3.35	80		
2	78		
1.18	76		
0.6	74	Particle density (assumed)	
0.425	73	2.65 Mg/m3	
0.3	71		
0.212	69		
0.15	67		
0.063	66		

Dry Mass of sample, g	660

Sample Proportions	% dry mass
Very coarse	0
Gravel	22
Sand	12
Silt	44
Clay	23

Grading Analysis		
D100	mm	
D60	mm	0.0304
D30	mm	0.00402
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

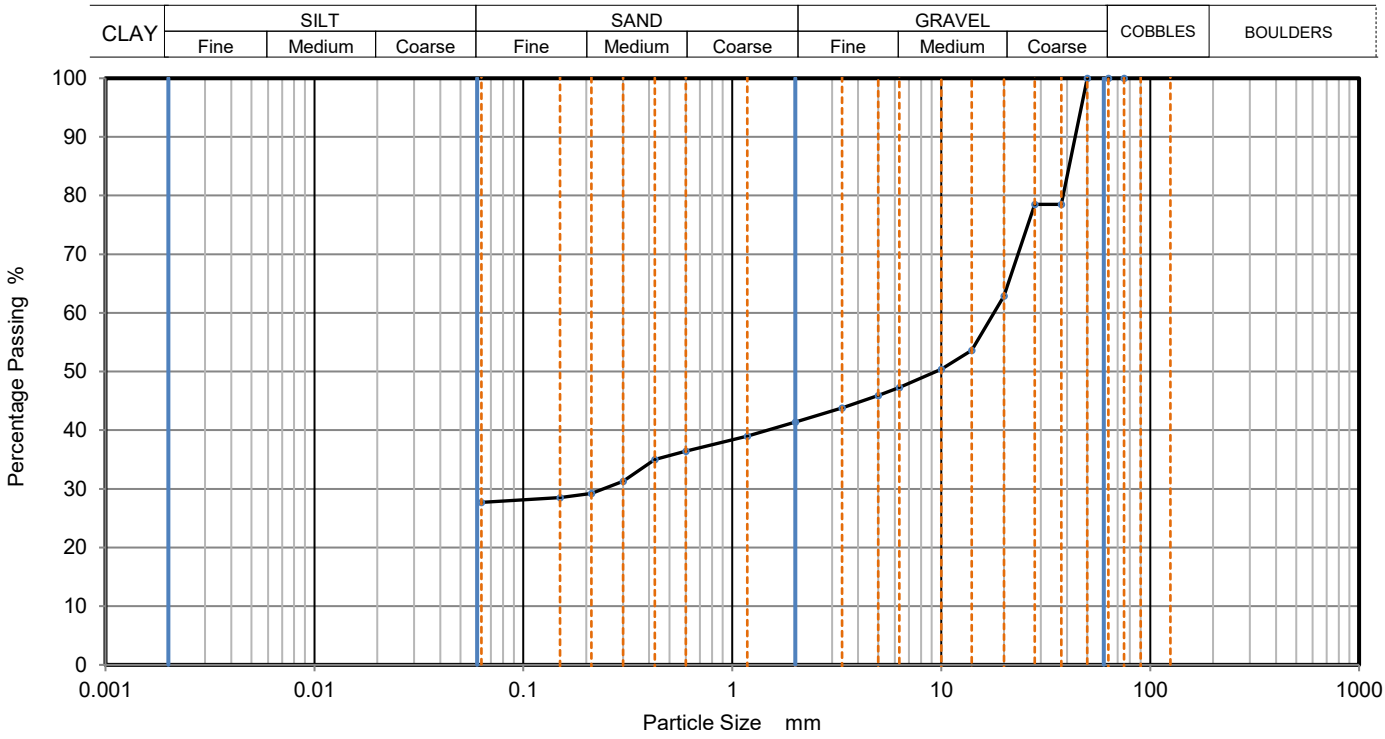
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-LG6
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Greyish-brown sandy very silty coarse GRAVEL.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250113178



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	79		
28	79		
20	63		
14	54		
10	50		
6.3	47		
5	46		
3.35	44		
2	41		
1.18	39		
0.6	36		
0.425	35		
0.3	31		
0.212	29		
0.15	29		
0.063	28		

Dry Mass of sample, g	715

Sample Proportions	% dry mass
Very coarse	0
Gravel	59
Sand	14
Fines <0.063mm	28

Grading Analysis		
D100	mm	
D60	mm	17.9
D30	mm	0.241
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

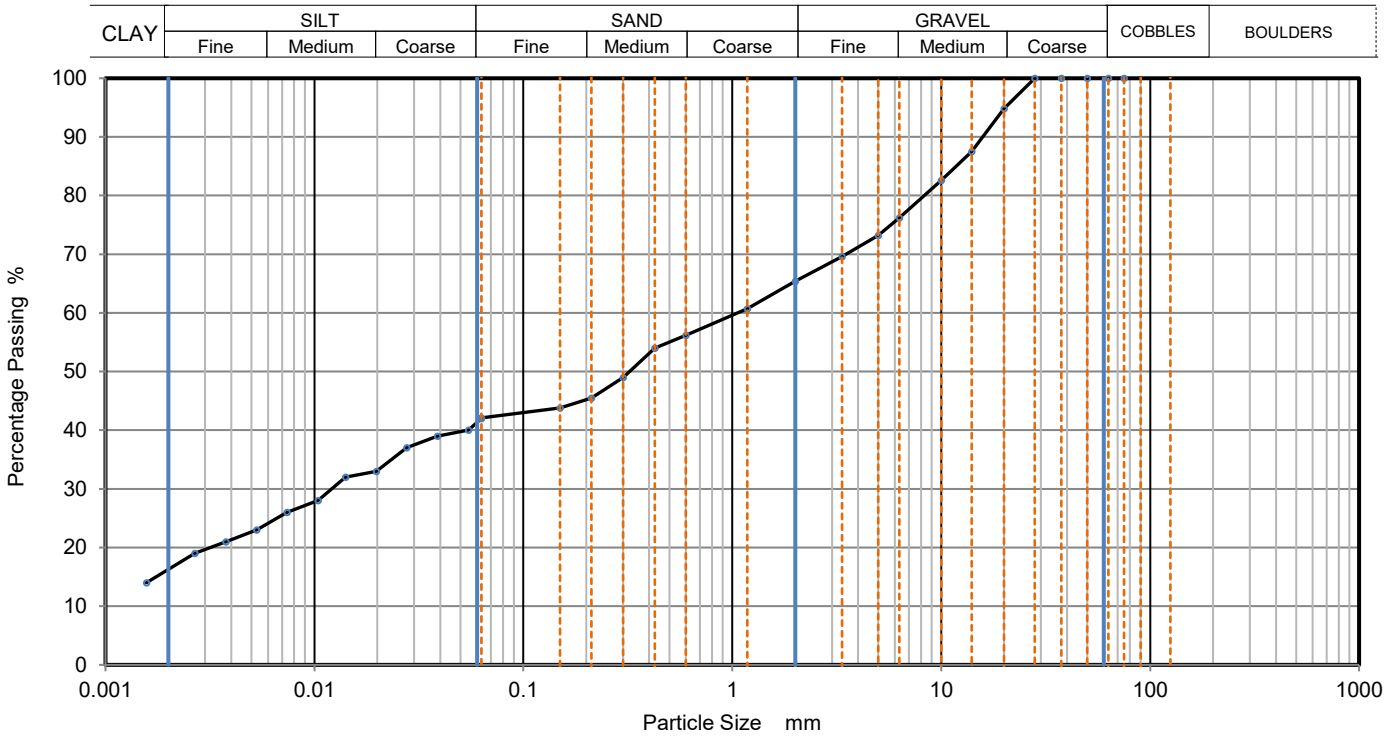
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-LR1
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown slightly sandy gravelly SILT.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025021380



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	42
		0.0546	40
75	100	0.0389	39
63	100	0.0276	37
50	100	0.0198	33
37.5	100	0.0141	32
28	100	0.0104	28
20	95	0.0074	26
14	88	0.0053	23
10	83	0.0038	21
6.3	76	0.0027	19
5	73	0.0016	14
3.35	70		
2	65		
1.18	61		
0.6	56	Particle density (assumed)	
0.425	54	2.65 Mg/m3	
0.3	49		
0.212	46		
0.15	44		
0.063	42		

Dry Mass of sample, g	472

Sample Proportions	% dry mass
Very coarse	0
Gravel	35
Sand	23
Silt	26
Clay	16

Grading Analysis		
D100	mm	
D60	mm	1.07
D30	mm	0.0123
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

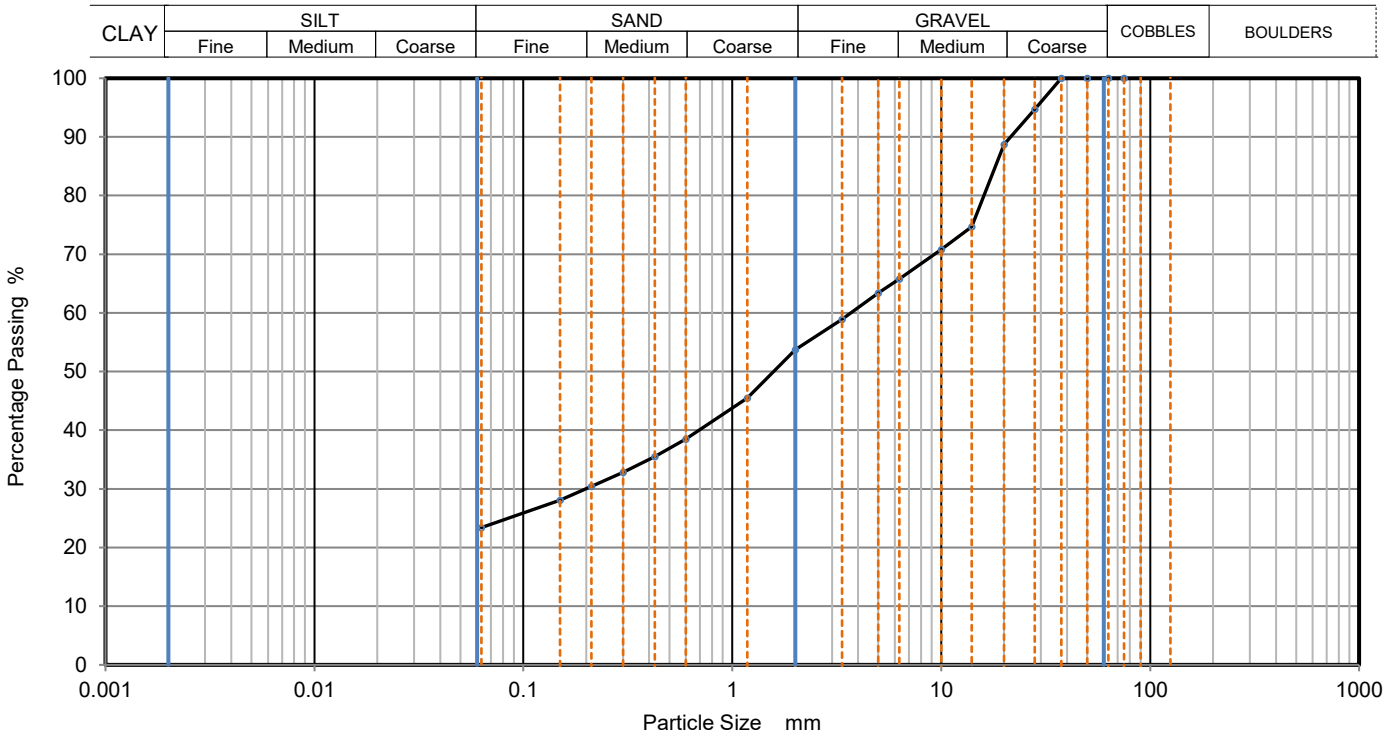
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M02
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark grey very silty very sandy medium GRAVEL.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250724146



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	95		
20	89		
14	75		
10	71		
6.3	66		
5	63		
3.35	59		
2	54		
1.18	46		
0.6	39		
0.425	36		
0.3	33		
0.212	30		
0.15	28		
0.063	23		

Dry Mass of sample, g	814

Sample Proportions	% dry mass
Very coarse	0
Gravel	46
Sand	30
Fines <0.063mm	23

Grading Analysis		
D100	mm	
D60	mm	3.69
D30	mm	0.201
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

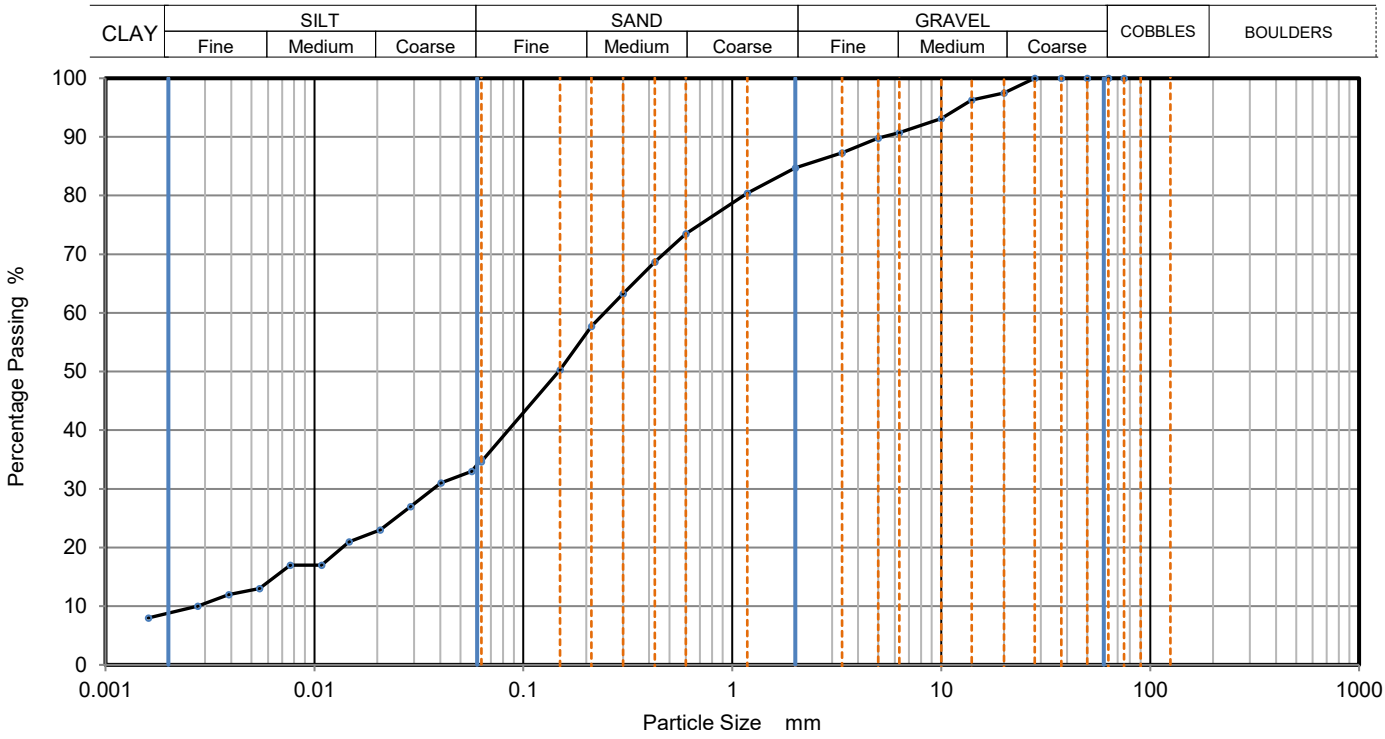
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M03
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Dark grey slightly gravelly sandy SILT. Sand is fine.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521163



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	35
		0.0566	33
75	100	0.0403	31
63	100	0.0288	27
50	100	0.0206	23
37.5	100	0.0147	21
28	100	0.0108	17
20	98	0.0076	17
14	96	0.0055	13
10	93	0.0039	12
6.3	91	0.0028	10
5	90	0.0016	8
3.35	87		
2	85		
1.18	80		
0.6	74	Particle density (assumed)	
0.425	69	2.65 Mg/m3	
0.3	63		
0.212	58		
0.15	50		
0.063	35		

Dry Mass of sample, g	689

Sample Proportions	% dry mass
Very coarse	0
Gravel	15
Sand	50
Silt	26
Clay	9

Grading Analysis		
D100	mm	
D60	mm	0.245
D30	mm	0.0377
D10	mm	0.00296
Uniformity Coefficient		83
Curvature Coefficient		2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

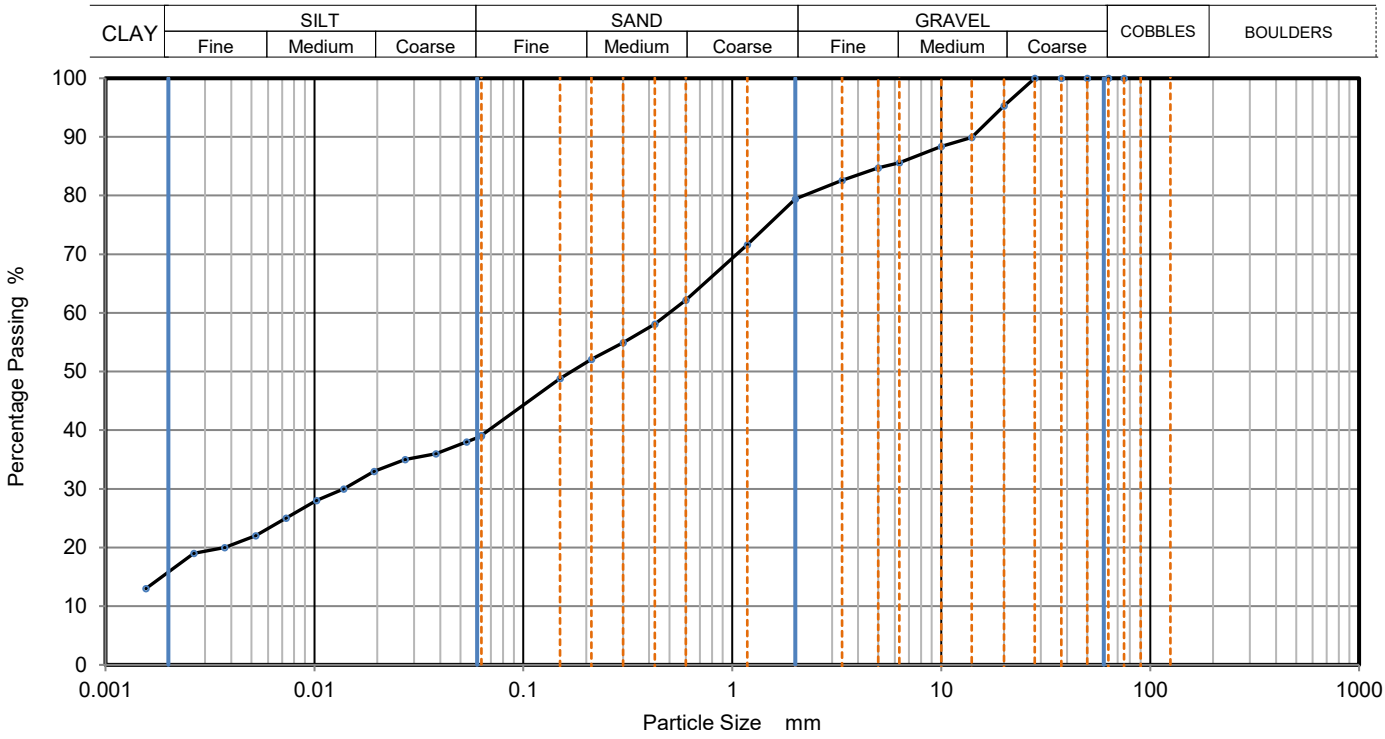
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M03
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Dark grey slightly gravelly sandy SILT.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521166



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	39
		0.0536	38
75	100	0.0381	36
63	100	0.0271	35
50	100	0.0193	33
37.5	100	0.0138	30
28	100	0.0102	28
20	95	0.0073	25
14	90	0.0052	22
10	88	0.0037	20
6.3	86	0.0026	19
5	85	0.0016	13
3.35	83		
2	79		
1.18	72		
0.6	62	Particle density (assumed)	
0.425	58	2.65	Mg/m3
0.3	55		
0.212	52		
0.15	49		
0.063	39		

Dry Mass of sample, g	827

Sample Proportions	% dry mass
Very coarse	0
Gravel	21
Sand	40
Silt	23
Clay	16

Grading Analysis		
D100	mm	
D60	mm	0.498
D30	mm	0.0132
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

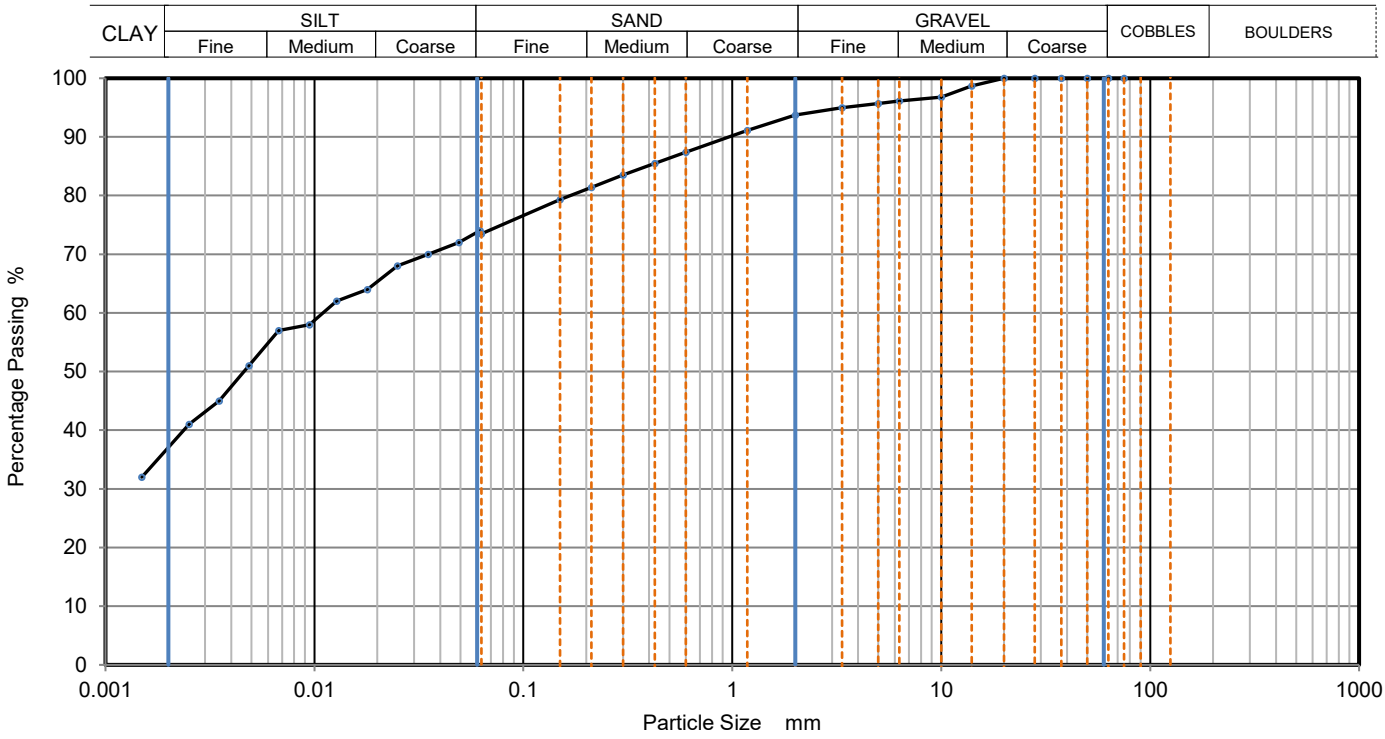
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M03
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Dark grey slightly gravelly sandy SILT.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521169



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0621	74
		0.0492	72
75	100	0.0350	70
63	100	0.0250	68
50	100	0.0179	64
37.5	100	0.0128	62
28	100	0.0095	58
20	100	0.0067	57
14	99	0.0049	51
10	97	0.0035	45
6.3	96	0.0025	41
5	96	0.0015	32
3.35	95		
2	94		
1.18	91		
0.6	87	Particle density (assumed)	
0.425	86	2.65 Mg/m3	
0.3	84		
0.212	81		
0.15	79		
0.063	74		

Dry Mass of sample, g: 694

Sample Proportions	% dry mass
Very coarse	0
Gravel	6
Sand	20
Silt	36
Clay	37

Grading Analysis		
D100	mm	
D60	mm	0.0107
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

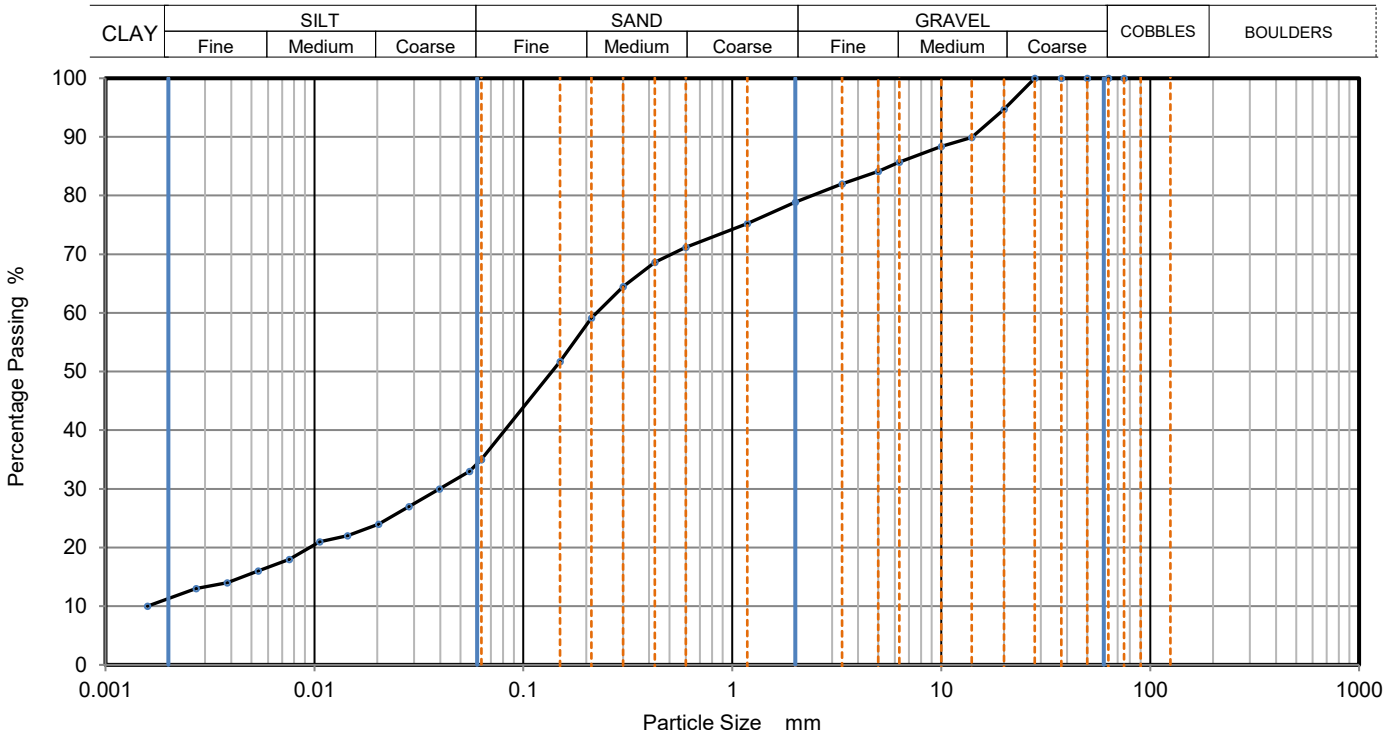
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M03A
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark brown slightly gravelly sandy SILT. Sand is fine.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521174



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	35
		0.0553	33
75	100	0.0396	30
63	100	0.0283	27
50	100	0.0203	24
37.5	100	0.0144	22
28	100	0.0106	21
20	95	0.0076	18
14	90	0.0054	16
10	88	0.0038	14
6.3	86	0.0027	13
5	84	0.0016	10
3.35	82		
2	79		
1.18	75		
0.6	71	Particle density (assumed)	
0.425	69	2.65	Mg/m3
0.3	65		
0.212	59		
0.15	52		
0.063	35		

Dry Mass of sample, g: 700

Sample Proportions	% dry mass
Very coarse	0
Gravel	21
Sand	44
Silt	24
Clay	11

Grading Analysis		
D100	mm	
D60	mm	0.224
D30	mm	0.0386
D10	mm	0.00171
Uniformity Coefficient		130
Curvature Coefficient		3.9

Remarks

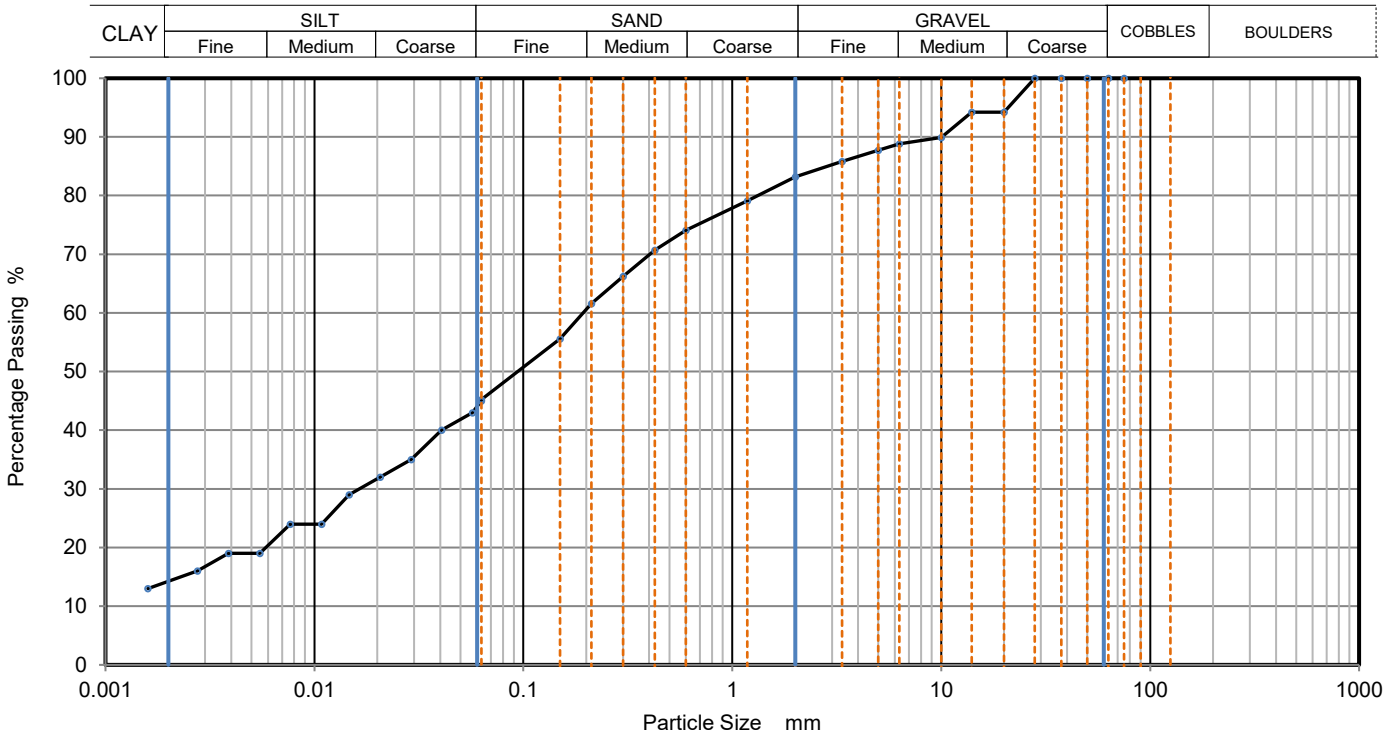
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M04
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly gravelly sandy SILT.			Depth, m	0.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521176



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	45
		0.0570	43
75	100	0.0406	40
63	100	0.0290	35
50	100	0.0206	32
37.5	100	0.0147	29
28	100	0.0108	24
20	94	0.0077	24
14	94	0.0055	19
10	90	0.0039	19
6.3	89	0.0028	16
5	88	0.0016	13
3.35	86		
2	83		
1.18	79		
0.6	74	Particle density (assumed)	
0.425	71	2.65	Mg/m3
0.3	66		
0.212	62		
0.15	56		
0.063	45		

Dry Mass of sample, g	503

Sample Proportions	% dry mass
Very coarse	0
Gravel	17
Sand	38
Silt	31
Clay	14

Grading Analysis		
D100	mm	
D60	mm	0.194
D30	mm	0.0162
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

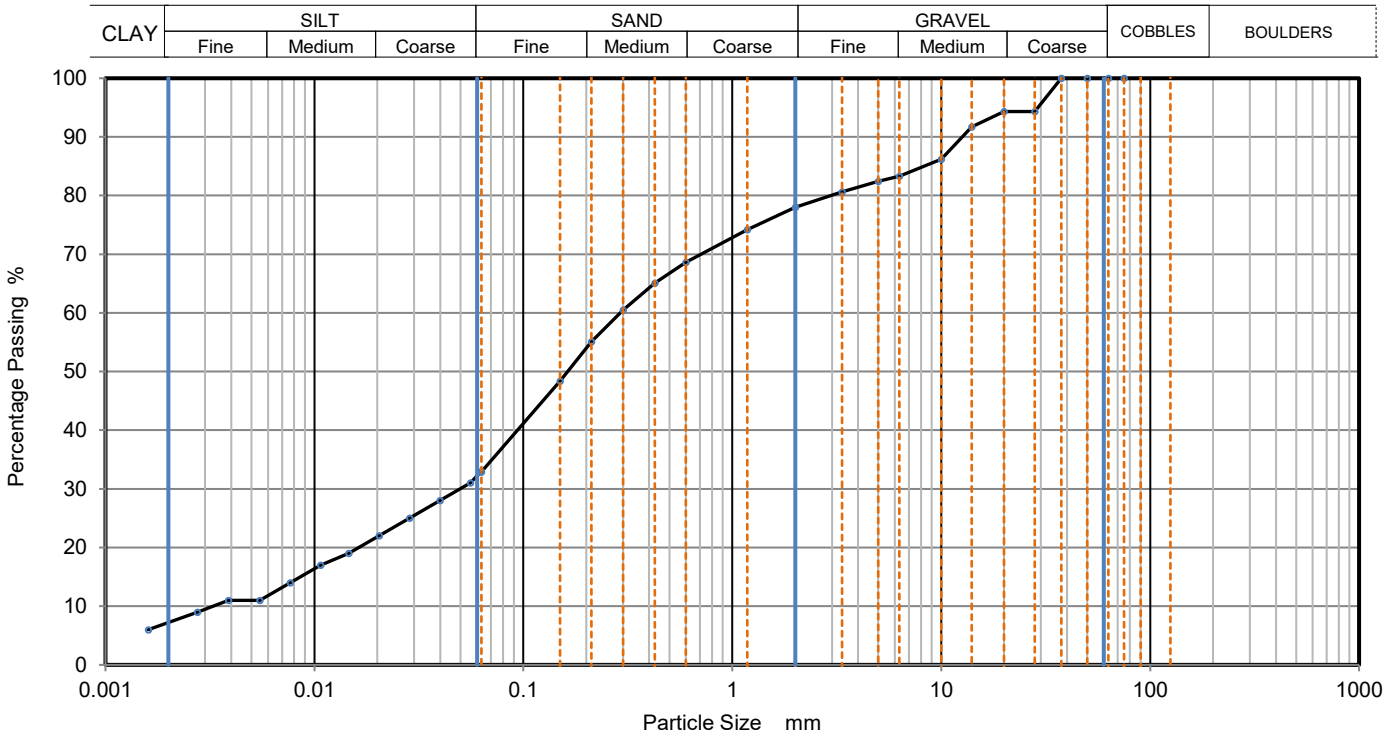
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M04
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark brown very gravelly very silty fine SAND.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521179



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	33
		0.0557	31
75	100	0.0399	28
63	100	0.0285	25
50	100	0.0204	22
37.5	100	0.0146	19
28	94	0.0107	17
20	94	0.0077	14
14	92	0.0055	11
10	86	0.0039	11
6.3	83	0.0028	9
5	82	0.0016	6
3.35	81		
2	78		
1.18	74		
0.6	69	Particle density (assumed)	
0.425	65	2.65 Mg/m3	
0.3	61		
0.212	55		
0.15	48		
0.063	33		

Dry Mass of sample, g	658

Sample Proportions	% dry mass
Very coarse	0
Gravel	22
Sand	45
Silt	25
Clay	8

Grading Analysis		
D100	mm	
D60	mm	0.291
D30	mm	0.0483
D10	mm	0.00313
Uniformity Coefficient		93
Curvature Coefficient		2.6

Remarks

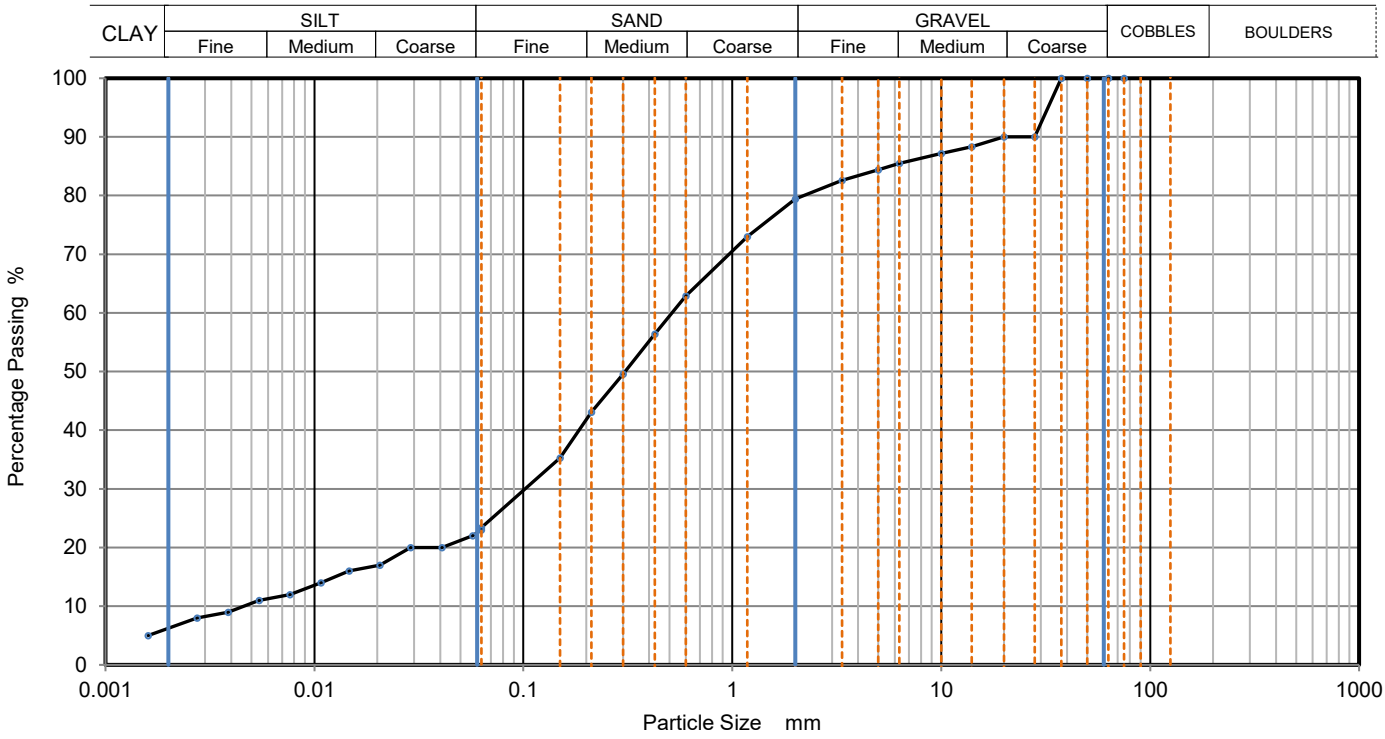
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M04
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Dark grey very gravelly very silty SAND.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521185



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	23
		0.0573	22
75	100	0.0407	20
63	100	0.0288	20
50	100	0.0206	17
37.5	100	0.0146	16
28	90	0.0108	14
20	90	0.0076	12
14	88	0.0054	11
10	87	0.0039	9
6.3	86	0.0027	8
5	84	0.0016	5
3.35	83		
2	79		
1.18	73		
0.6	63	Particle density (assumed)	
0.425	56	2.65 Mg/m3	
0.3	50		
0.212	43		
0.15	35		
0.063	23		

Dry Mass of sample, g	752

Sample Proportions	% dry mass
Very coarse	0
Gravel	21
Sand	56
Silt	17
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.515
D30	mm	0.102
D10	mm	0.00444
Uniformity Coefficient		120
Curvature Coefficient		4.5

Remarks

Preparation and testing in accordance with BS1377 unless noted below

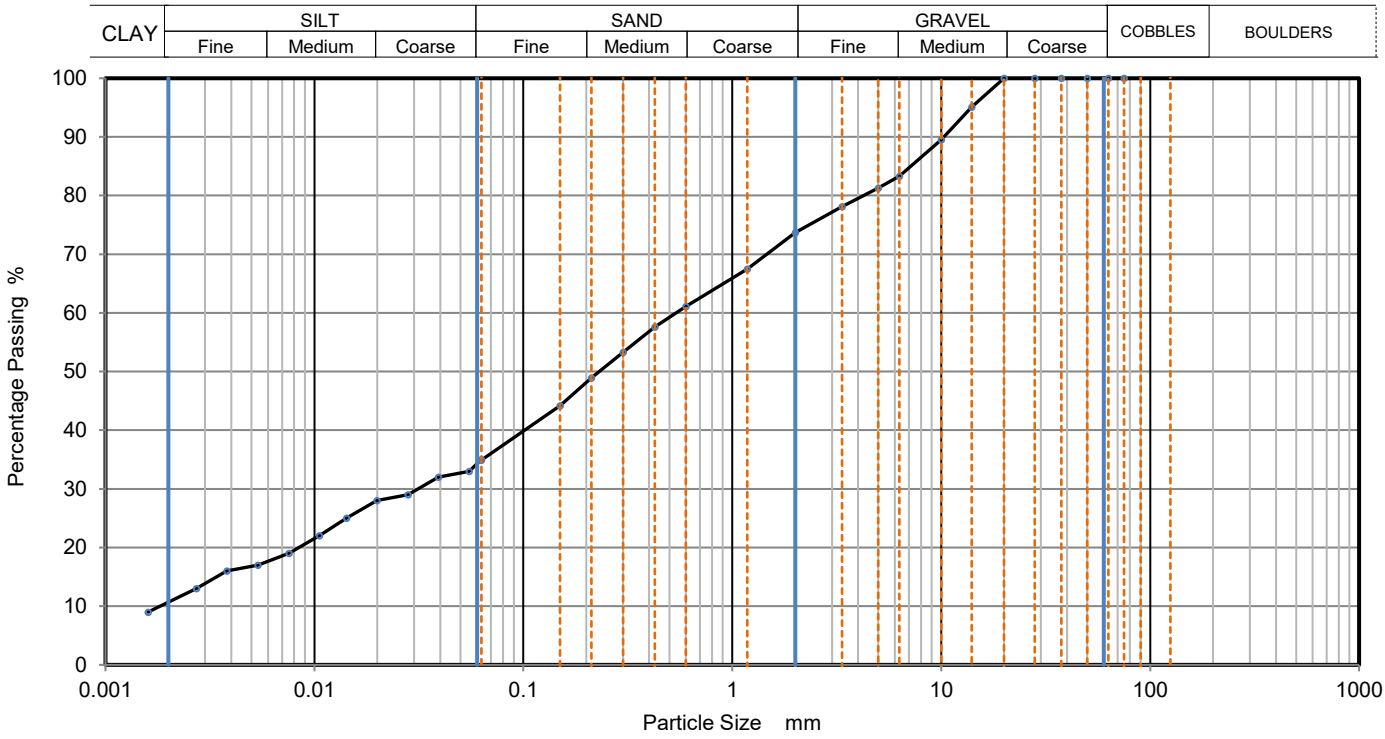
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M04A
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown slightly gravelly sandy SILT.			Depth, m	0.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521187



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	35
		0.0550	33
75	100	0.0391	32
63	100	0.0280	29
50	100	0.0199	28
37.5	100	0.0143	25
28	100	0.0105	22
20	100	0.0075	19
14	95	0.0054	17
10	90	0.0038	16
6.3	83	0.0027	13
5	81	0.0016	9
3.35	78		
2	74		
1.18	68		
0.6	61	Particle density (assumed)	
0.425	58	2.65	Mg/m3
0.3	53		
0.212	49		
0.15	44		
0.063	35		

Dry Mass of sample, g: 601

Sample Proportions	% dry mass
Very coarse	0
Gravel	26
Sand	39
Silt	24
Clay	11

Grading Analysis		
D100	mm	
D60	mm	0.539
D30	mm	0.0311
D10	mm	0.00187
Uniformity Coefficient		290
Curvature Coefficient		0.96

Remarks

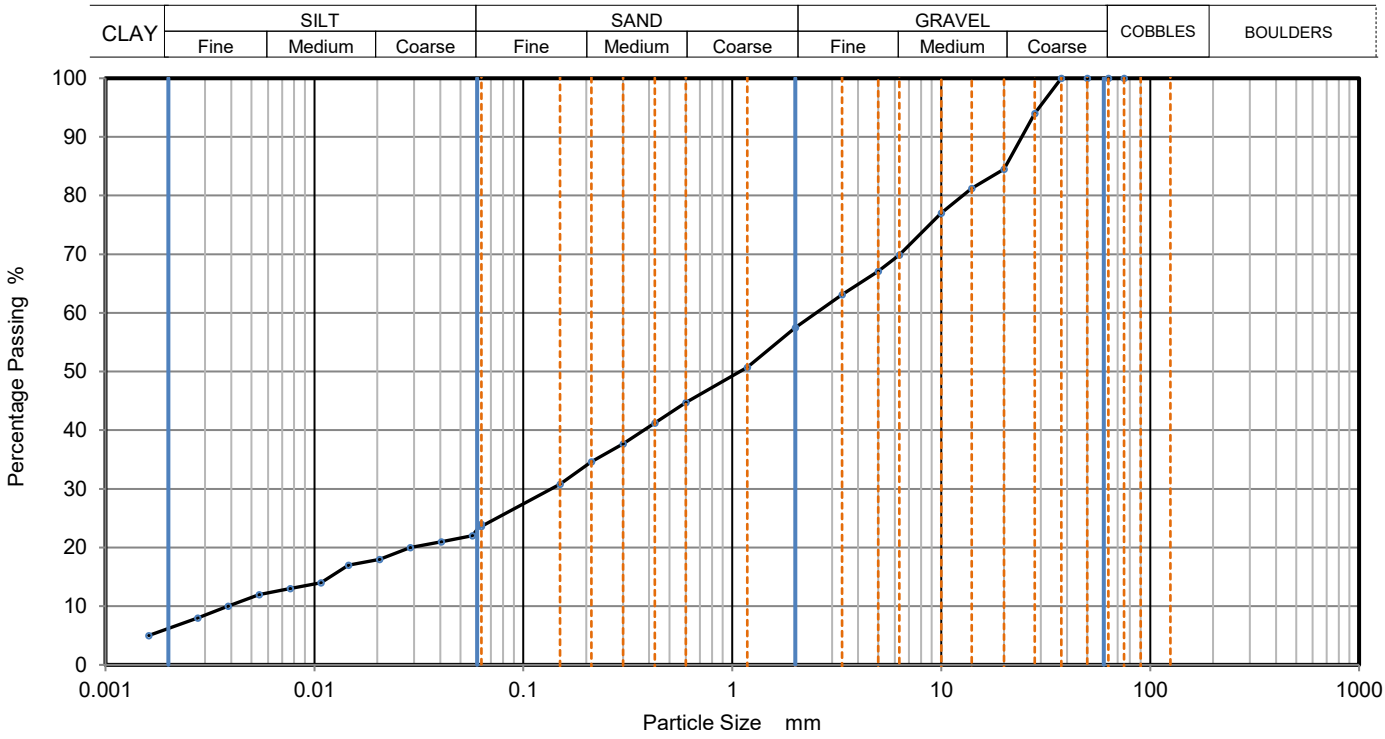
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M04A
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Light brown very silty very sandy GRAVEL.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521193



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	24
		0.0569	22
75	100	0.0405	21
63	100	0.0288	20
50	100	0.0205	18
37.5	100	0.0146	17
28	94	0.0108	14
20	85	0.0076	13
14	81	0.0054	12
10	77	0.0039	10
6.3	70	0.0028	8
5	67	0.0016	5
3.35	63		
2	58		
1.18	51		
0.6	45	Particle density (assumed)	
0.425	41	2.65 Mg/m3	
0.3	38		
0.212	35		
0.15	31		
0.063	24		

Dry Mass of sample, g	797

Sample Proportions	% dry mass
Very coarse	0
Gravel	43
Sand	34
Silt	17
Clay	6

Grading Analysis		
D100	mm	
D60	mm	2.51
D30	mm	0.136
D10	mm	0.00363
Uniformity Coefficient		690
Curvature Coefficient		2

Remarks

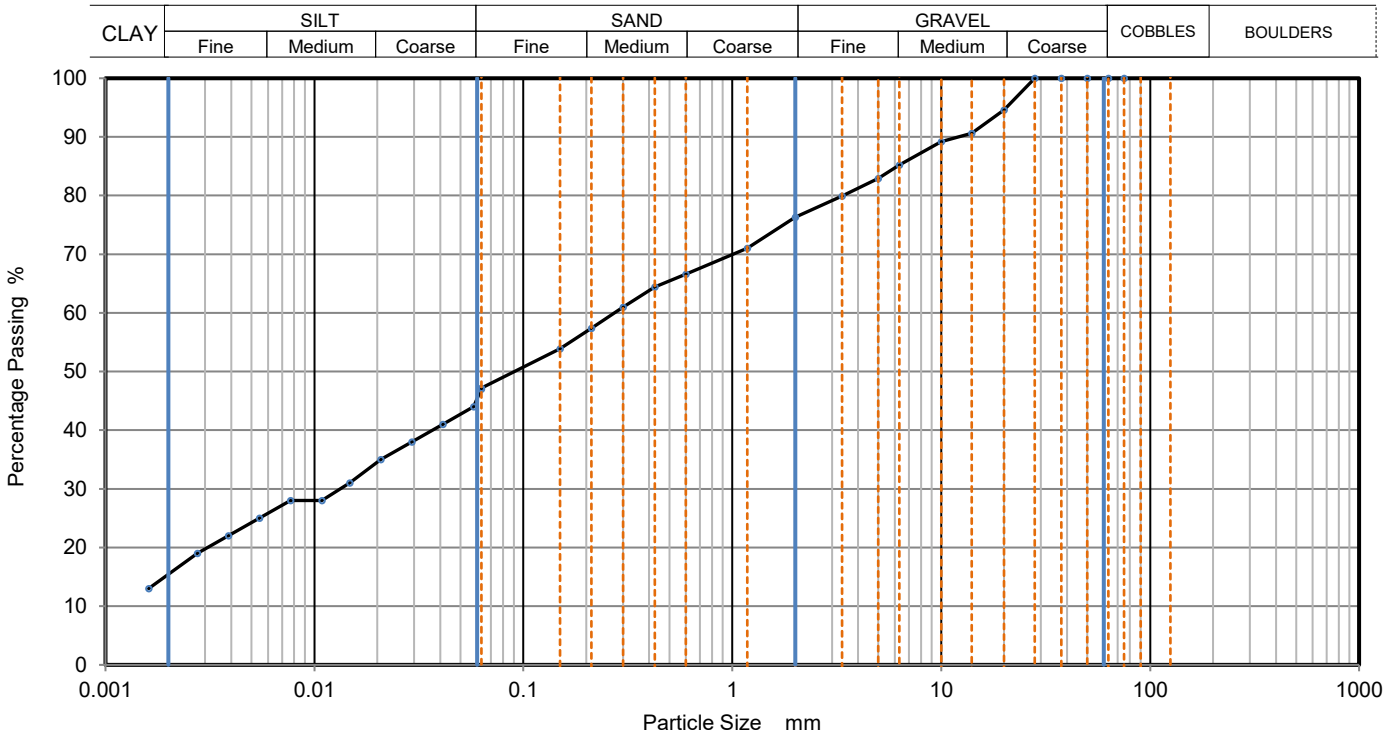
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M05
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark brown slightly gravelly slightly sandy SILT.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250724151



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	47
		0.0578	44
75	100	0.0411	41
63	100	0.0292	38
50	100	0.0208	35
37.5	100	0.0148	31
28	100	0.0109	28
20	95	0.0077	28
14	91	0.0055	25
10	89	0.0039	22
6.3	85	0.0028	19
5	83	0.0016	13
3.35	80		
2	76		
1.18	71		
0.6	67	Particle density (assumed)	
0.425	64	2.65	Mg/m3
0.3	61		
0.212	57		
0.15	54		
0.063	47		

Dry Mass of sample, g	496

Sample Proportions	% dry mass
Very coarse	0
Gravel	24
Sand	29
Silt	32
Clay	15

Grading Analysis		
D100	mm	
D60	mm	0.272
D30	mm	0.0128
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

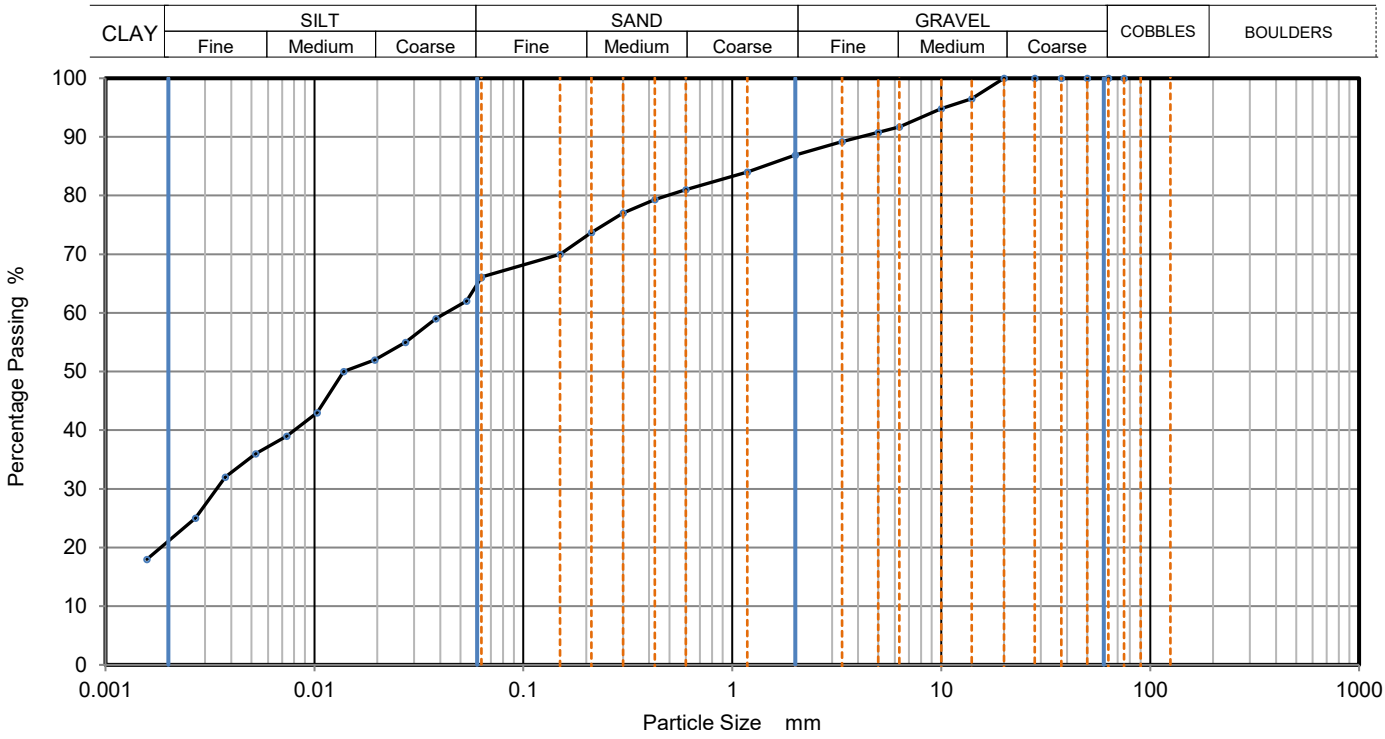
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M05
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Light brown slightly gravelly slightly sandy SILT.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250724154



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	66
		0.0535	62
75	100	0.0381	59
63	100	0.0273	55
50	100	0.0194	52
37.5	100	0.0138	50
28	100	0.0103	43
20	100	0.0074	39
14	97	0.0052	36
10	95	0.0037	32
6.3	92	0.0027	25
5	91	0.0016	18
3.35	89		
2	87		
1.18	84		
0.6	81	Particle density (assumed)	
0.425	79	2.65 Mg/m3	
0.3	77		
0.212	74		
0.15	70		
0.063	66		

Dry Mass of sample, g	504

Sample Proportions	% dry mass
Very coarse	0
Gravel	13
Sand	21
Silt	45
Clay	21

Grading Analysis		
D100	mm	
D60	mm	0.0425
D30	mm	0.00341
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

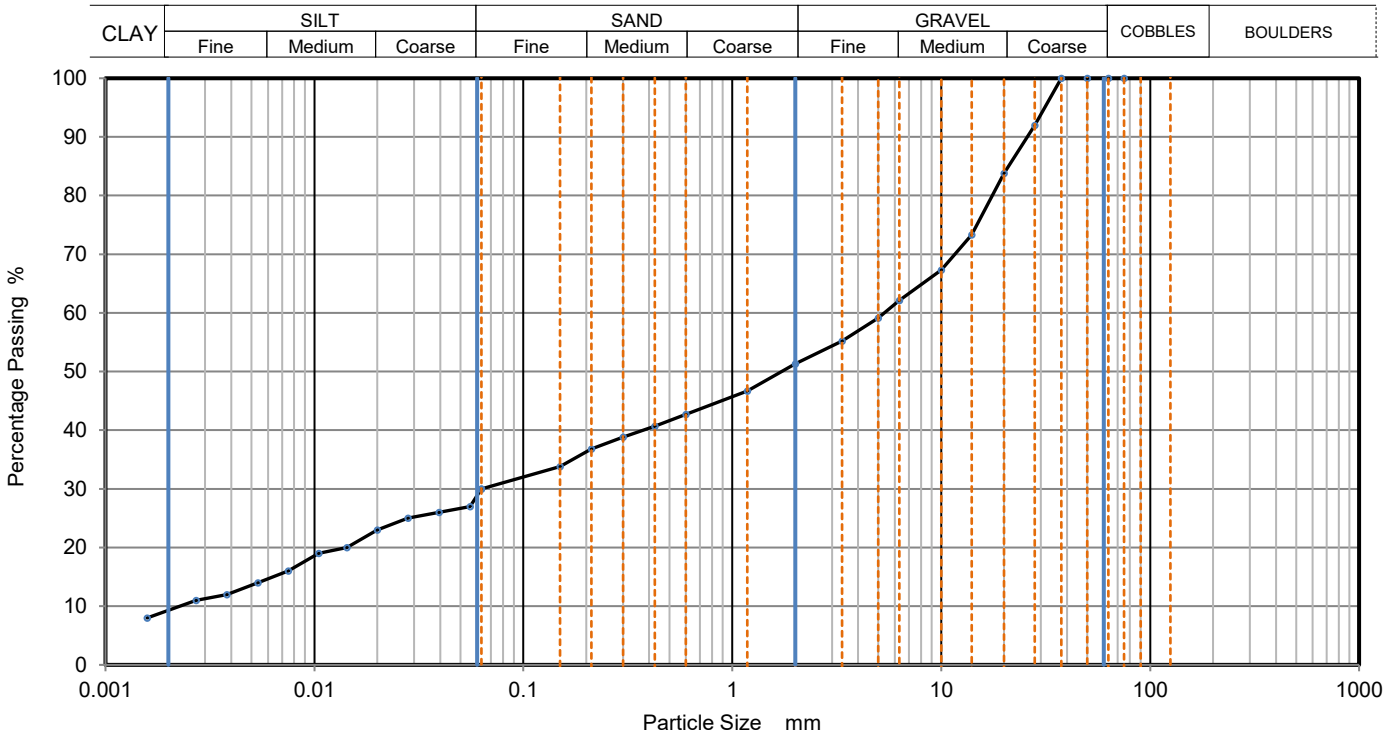
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M05
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Light brown very sandy very silty medium GRAVEL.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250724157



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	30
		0.0555	27
75	100	0.0395	26
63	100	0.0281	25
50	100	0.0200	23
37.5	100	0.0143	20
28	92	0.0105	19
20	84	0.0075	16
14	73	0.0054	14
10	67	0.0038	12
6.3	62	0.0027	11
5	59	0.0016	8
3.35	55		
2	51		
1.18	47		
0.6	43	Particle density (assumed)	
0.425	41	2.65 Mg/m3	
0.3	39		
0.212	37		
0.15	34		
0.063	30		

Dry Mass of sample, g	741

Sample Proportions	% dry mass
Very coarse	0
Gravel	49
Sand	21
Silt	21
Clay	9

Grading Analysis		
D100	mm	
D60	mm	5.38
D30	mm	
D10	mm	0.00227
Uniformity Coefficient		2400
Curvature Coefficient		

Remarks

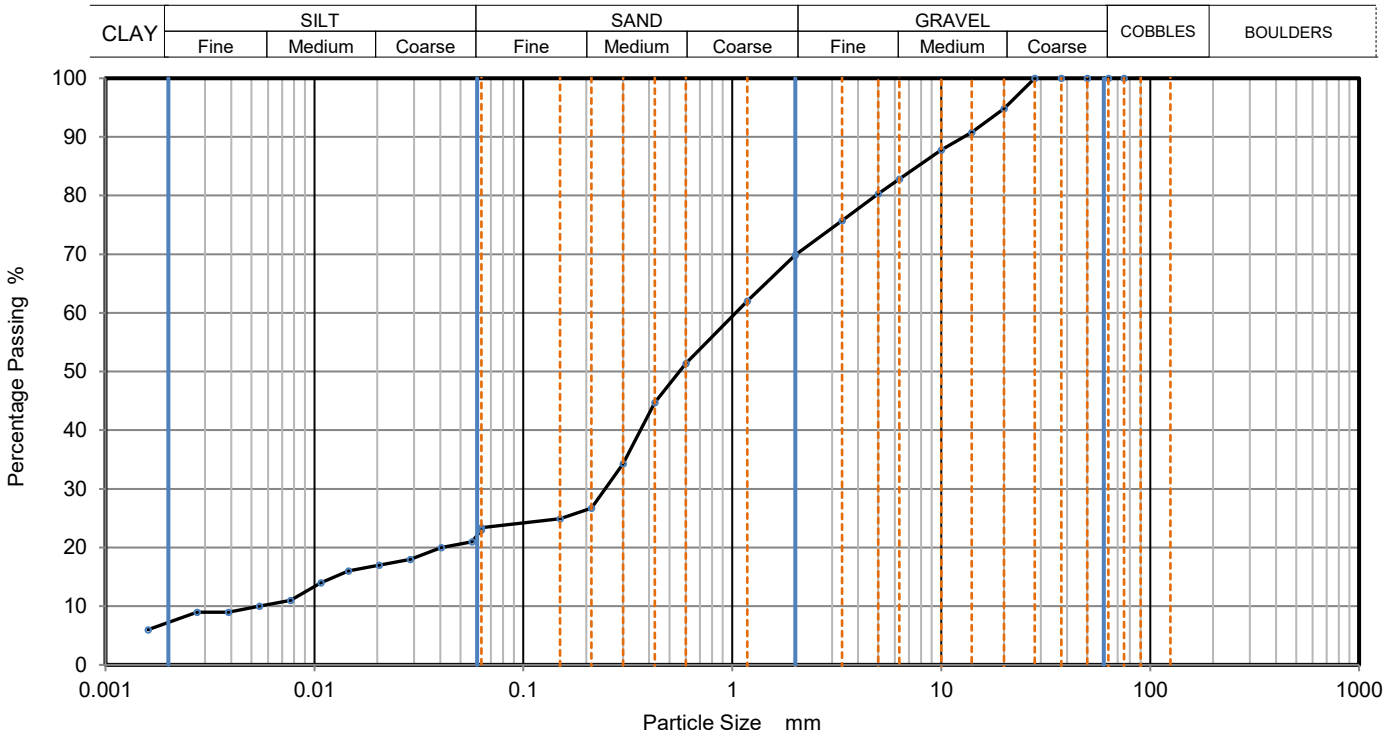
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M06
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown very silty very gravelly medium and coarse SAND.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250904104



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	23
		0.0569	21
75	100	0.0404	20
63	100	0.0288	18
50	100	0.0205	17
37.5	100	0.0145	16
28	100	0.0107	14
20	95	0.0077	11
14	91	0.0055	10
10	88	0.0039	9
6.3	83	0.0027	9
5	80	0.0016	6
3.35	76		
2	70		
1.18	62		
0.6	51	Particle density (assumed)	
0.425	45	2.65 Mg/m3	
0.3	34		
0.212	27		
0.15	25		
0.063	23		

Dry Mass of sample, g	786

Sample Proportions	% dry mass
Very coarse	0
Gravel	30
Sand	47
Silt	16
Clay	7

Grading Analysis		
D100	mm	
D60	mm	1.04
D30	mm	0.247
D10	mm	0.00568
Uniformity Coefficient		180
Curvature Coefficient		10

Remarks

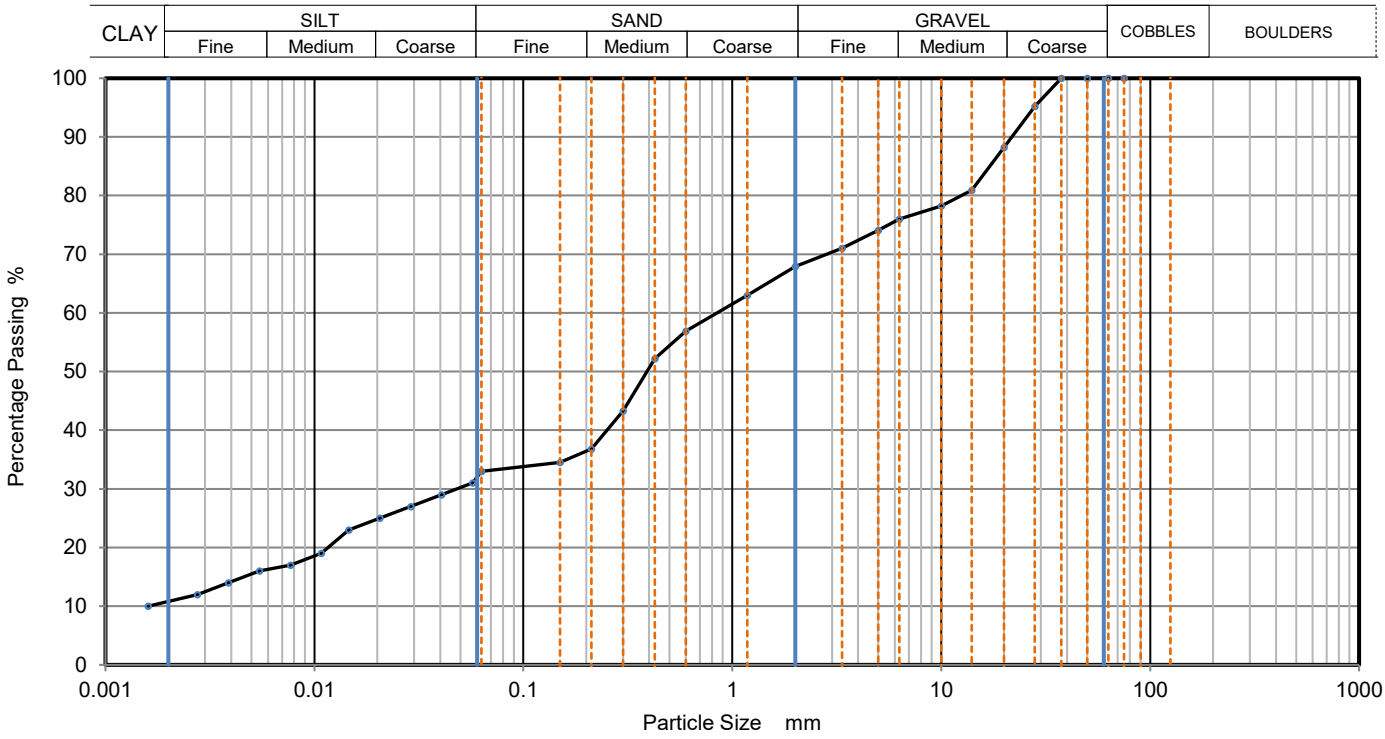
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M06
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Greyish-dark brown very gravelly very silty medium SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250904107



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	33
		0.0572	31
75	100	0.0407	29
63	100	0.0289	27
50	100	0.0206	25
37.5	100	0.0146	23
28	95	0.0108	19
20	88	0.0077	17
14	81	0.0055	16
10	78	0.0039	14
6.3	76	0.0028	12
5	74	0.0016	10
3.35	71		
2	68		
1.18	63		
0.6	57	Particle density (assumed)	
0.425	52	2.65 Mg/m3	
0.3	43		
0.212	37		
0.15	35		
0.063	33		

Dry Mass of sample, g: 618

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	35
Silt	23
Clay	11

Grading Analysis		
D100	mm	
D60	mm	0.843
D30	mm	0.0475
D10	mm	0.00174
Uniformity Coefficient		490
Curvature Coefficient		1.5

Remarks

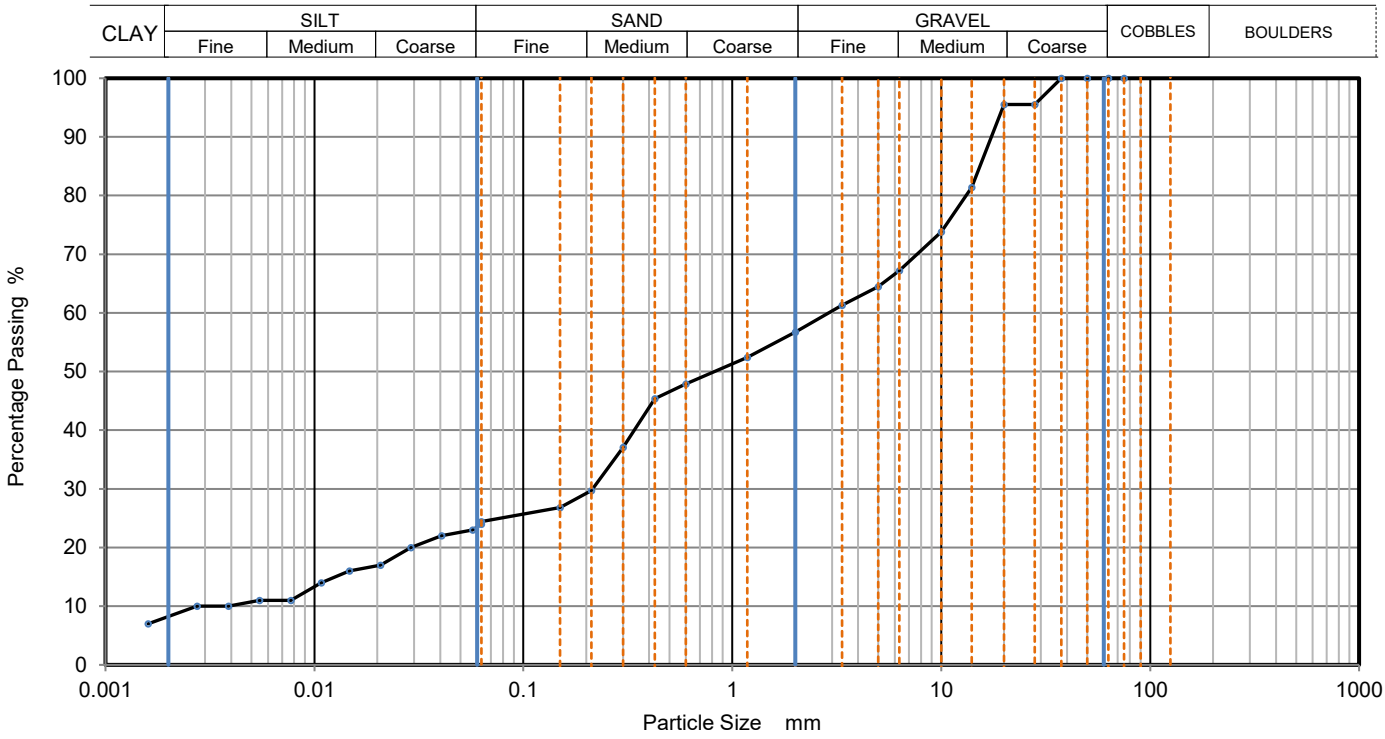
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M06
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Grey very silty very sandy medium GRAVEL.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250904110



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	24
		0.0572	23
75	100	0.0407	22
63	100	0.0289	20
50	100	0.0207	17
37.5	100	0.0147	16
28	96	0.0108	14
20	96	0.0077	11
14	81	0.0055	11
10	74	0.0039	10
6.3	67	0.0027	10
5	65	0.0016	7
3.35	61		
2	57		
1.18	52		
0.6	48	Particle density (assumed)	
0.425	45	2.65	Mg/m3
0.3	37		
0.212	30		
0.15	27		
0.063	24		

Dry Mass of sample, g	878

Sample Proportions	% dry mass
Very coarse	0
Gravel	43
Sand	32
Silt	16
Clay	8

Grading Analysis		
D100	mm	
D60	mm	2.89
D30	mm	0.215
D10	mm	0.00272
Uniformity Coefficient		1100
Curvature Coefficient		5.9

Remarks

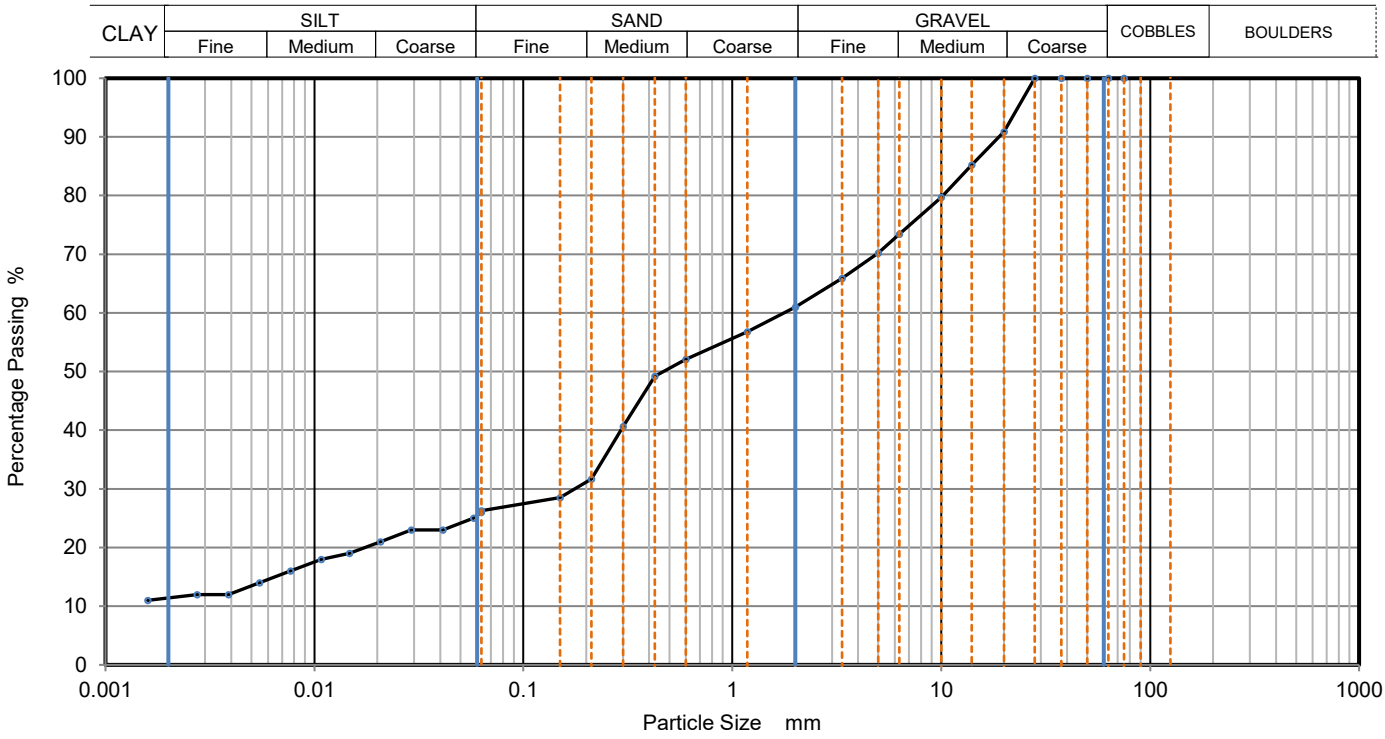
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M06
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Dark grey very silty medium SAND and medium GRAVEL.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250904113



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	26
		0.0578	25
75	100	0.0411	23
63	100	0.0291	23
50	100	0.0207	21
37.5	100	0.0147	19
28	100	0.0108	18
20	91	0.0077	16
14	85	0.0055	14
10	80	0.0039	12
6.3	73	0.0027	12
5	70	0.0016	11
3.35	66		
2	61		
1.18	57		
0.6	52	Particle density (assumed)	
0.425	49	2.65 Mg/m3	
0.3	41		
0.212	32		
0.15	29		
0.063	26		

Dry Mass of sample, g	767

Sample Proportions	% dry mass
Very coarse	0
Gravel	39
Sand	35
Silt	15
Clay	11

Grading Analysis		
D100	mm	
D60	mm	1.77
D30	mm	0.176
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

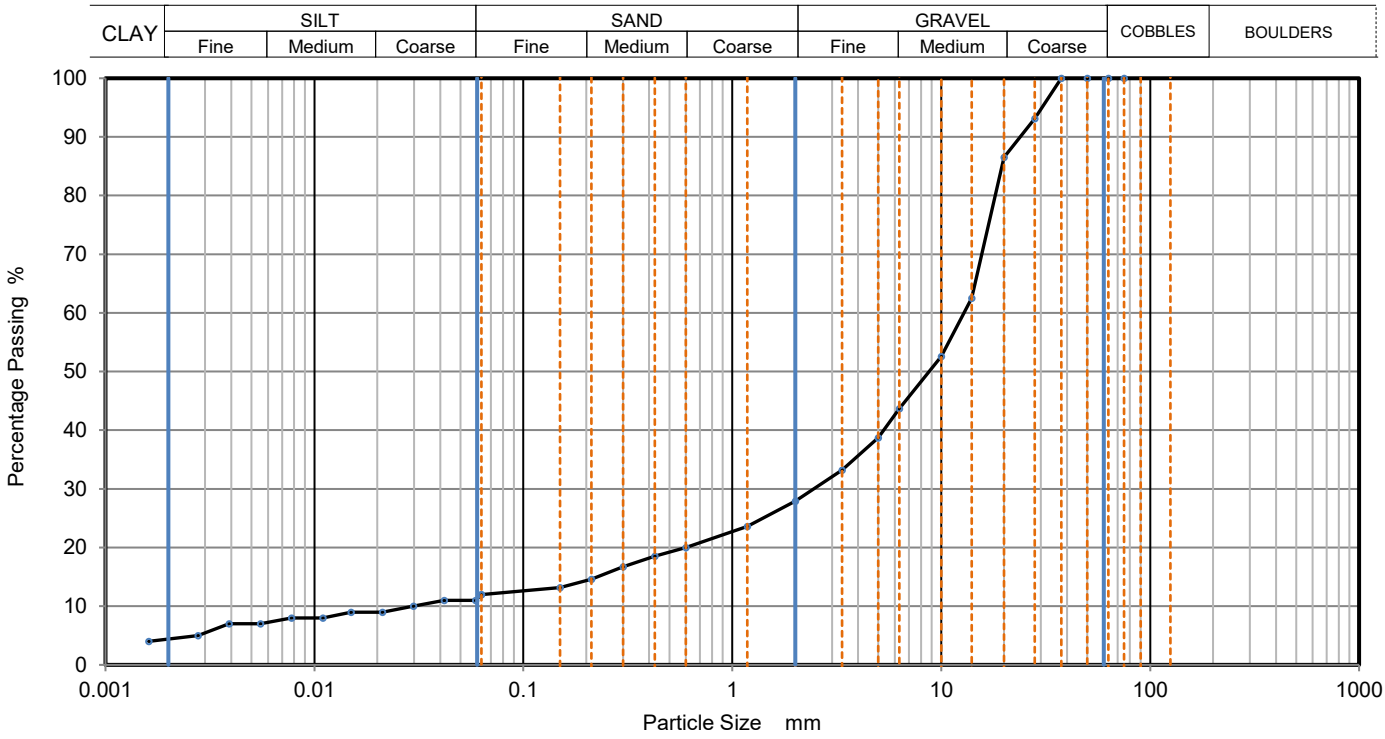
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M06A
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark grey silty sandy medium GRAVEL.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025090486



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	12
		0.0591	11
75	100	0.0418	11
63	100	0.0297	10
50	100	0.0211	9
37.5	100	0.0149	9
28	93	0.0110	8
20	87	0.0078	8
14	63	0.0055	7
10	53	0.0039	7
6.3	44	0.0028	5
5	39	0.0016	4
3.35	33		
2	28		
1.18	24		
0.6	20	Particle density (assumed)	
0.425	19	2.65	Mg/m3
0.3	17		
0.212	15		
0.15	13		
0.063	12		

Dry Mass of sample, g	651

Sample Proportions	% dry mass
Very coarse	0
Gravel	72
Sand	16
Silt	7
Clay	5

Grading Analysis		
D100	mm	
D60	mm	12.9
D30	mm	2.45
D10	mm	0.0315
Uniformity Coefficient		410
Curvature Coefficient		15

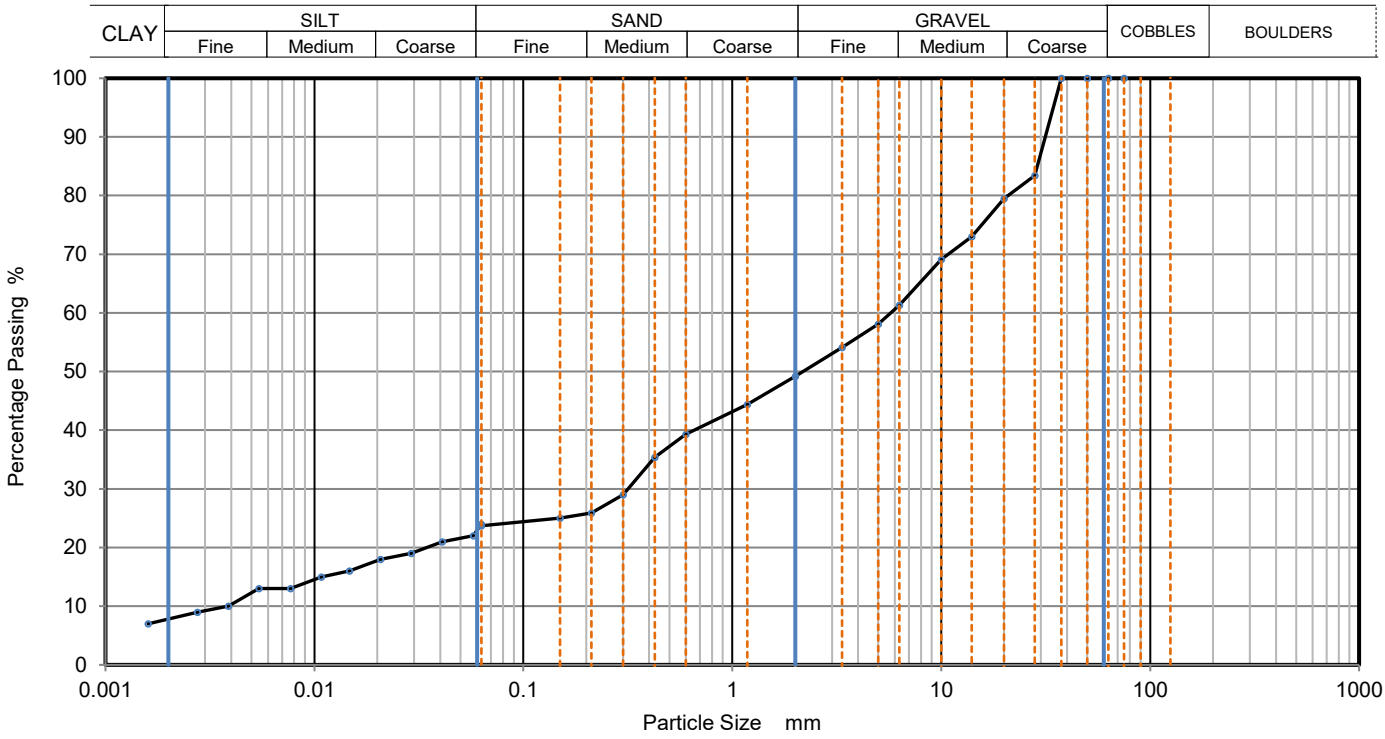
Remarks

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				QC From No:R2

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M06A
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Light brown very silty very sandy GRAVEL.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025090489



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	24
		0.0575	22
75	100	0.0409	21
63	100	0.0291	19
50	100	0.0207	18
37.5	100	0.0147	16
28	83	0.0108	15
20	80	0.0077	13
14	73	0.0054	13
10	69	0.0039	10
6.3	61	0.0028	9
5	58	0.0016	7
3.35	54		
2	49		
1.18	44		
0.6	39	Particle density (assumed)	
0.425	35	2.65	Mg/m3
0.3	29		
0.212	26		
0.15	25		
0.063	24		

Dry Mass of sample, g	672

Sample Proportions	% dry mass
Very coarse	0
Gravel	51
Sand	26
Silt	16
Clay	8

Grading Analysis		
D100	mm	
D60	mm	5.73
D30	mm	0.316
D10	mm	0.00356
Uniformity Coefficient		1600
Curvature Coefficient		4.9

Remarks

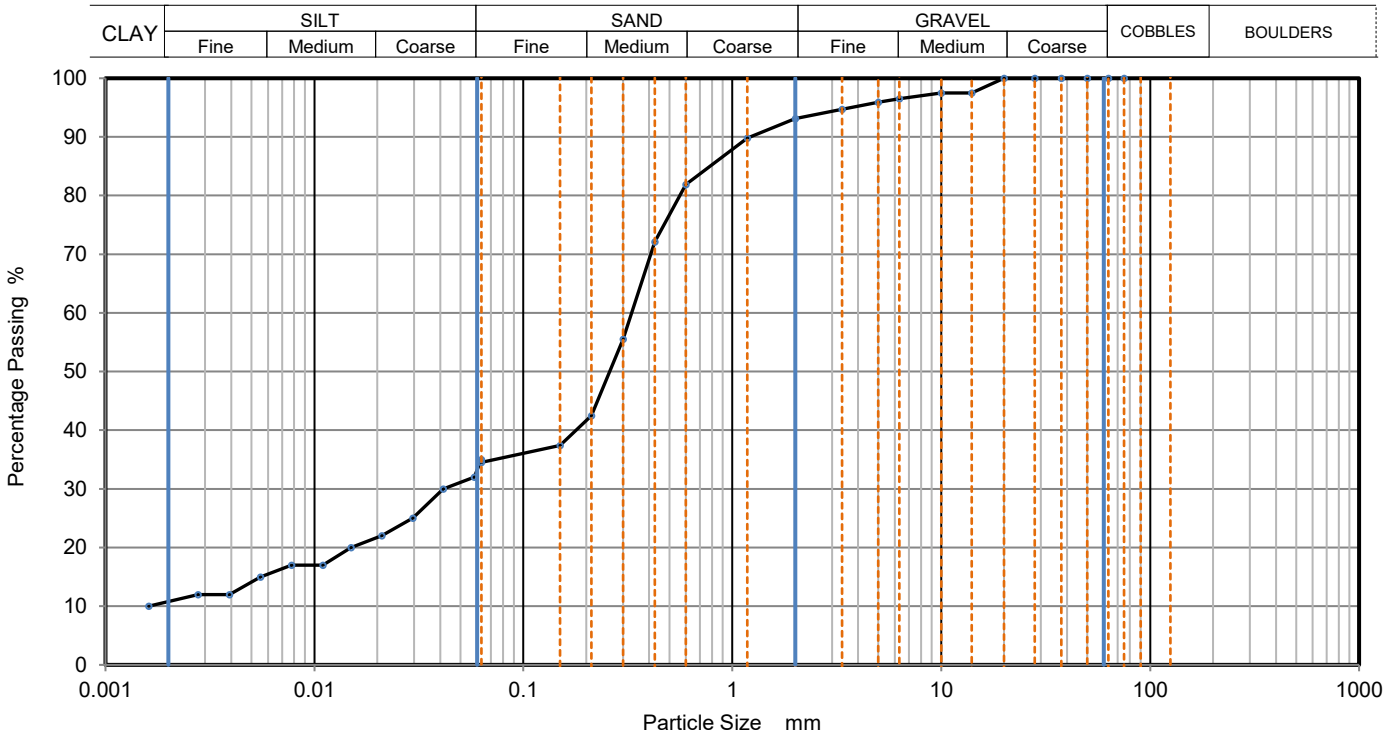
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M06A
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Greyish-light brown slightly gravelly sandy SILT. Sand is medium.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025090492



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	35
		0.0582	32
75	100	0.0414	30
63	100	0.0296	25
50	100	0.0210	22
37.5	100	0.0149	20
28	100	0.0110	17
20	100	0.0078	17
14	98	0.0055	15
10	98	0.0039	12
6.3	97	0.0028	12
5	96	0.0016	10
3.35	95		
2	93		
1.18	90		
0.6	82	Particle density (assumed)	
0.425	72	2.65 Mg/m3	
0.3	56		
0.212	43		
0.15	37		
0.063	35		

Dry Mass of sample, g: 596

Sample Proportions	% dry mass
Very coarse	0
Gravel	7
Sand	59
Silt	24
Clay	11

Grading Analysis		
D100	mm	
D60	mm	0.33
D30	mm	0.0439
D10	mm	0.00166
Uniformity Coefficient		200
Curvature Coefficient		3.5

Remarks

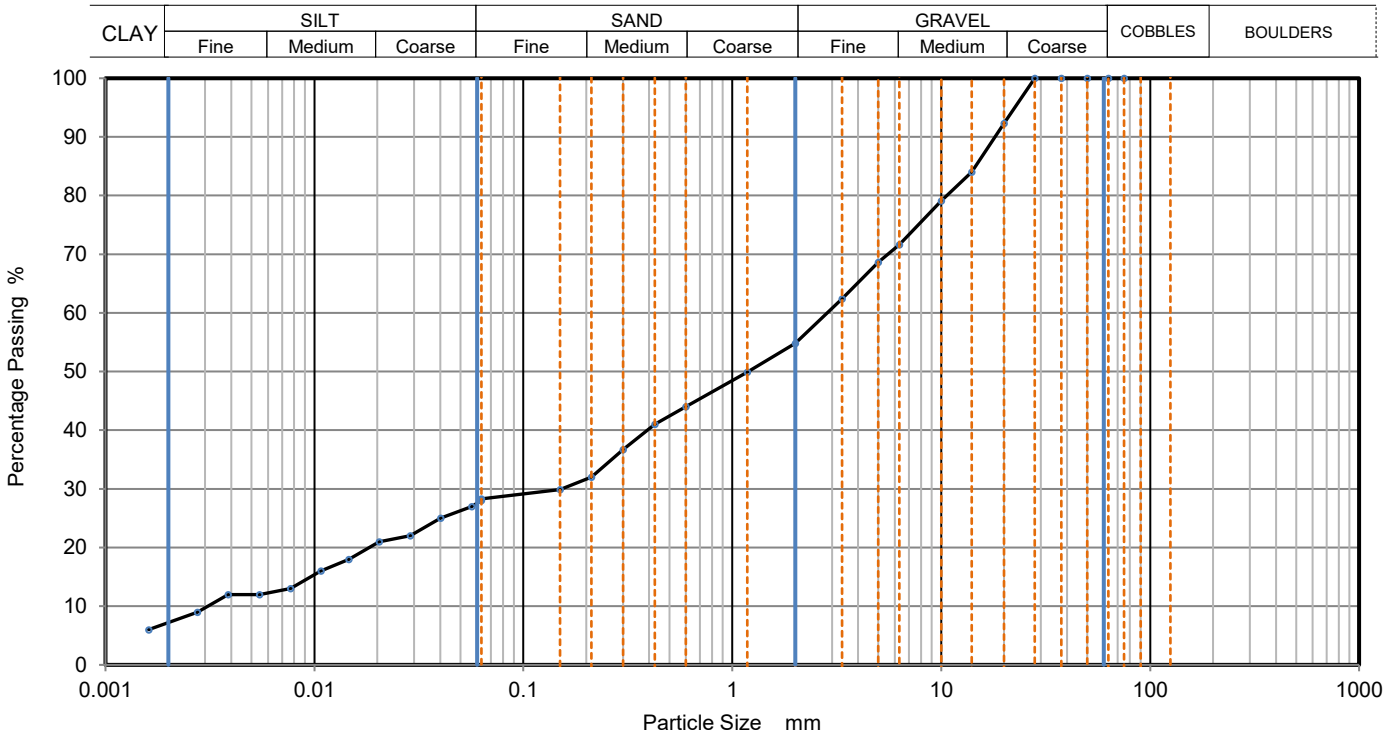
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M06A
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Daark grey very sandy very silty fine and medium GRAVEL.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025090495



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	28
		0.0565	27
75	100	0.0402	25
63	100	0.0288	22
50	100	0.0205	21
37.5	100	0.0146	18
28	100	0.0107	16
20	92	0.0077	13
14	84	0.0055	12
10	79	0.0039	12
6.3	72	0.0028	9
5	69	0.0016	6
3.35	62		
2	55		
1.18	50		
0.6	44	Particle density (assumed)	
0.425	41	2.65 Mg/m3	
0.3	37		
0.212	32		
0.15	30		
0.063	28		

Dry Mass of sample, g	869

Sample Proportions	% dry mass
Very coarse	0
Gravel	45
Sand	27
Silt	21
Clay	7

Grading Analysis		
D100	mm	
D60	mm	2.85
D30	mm	0.151
D10	mm	0.00311
Uniformity Coefficient		920
Curvature Coefficient		2.6

Remarks

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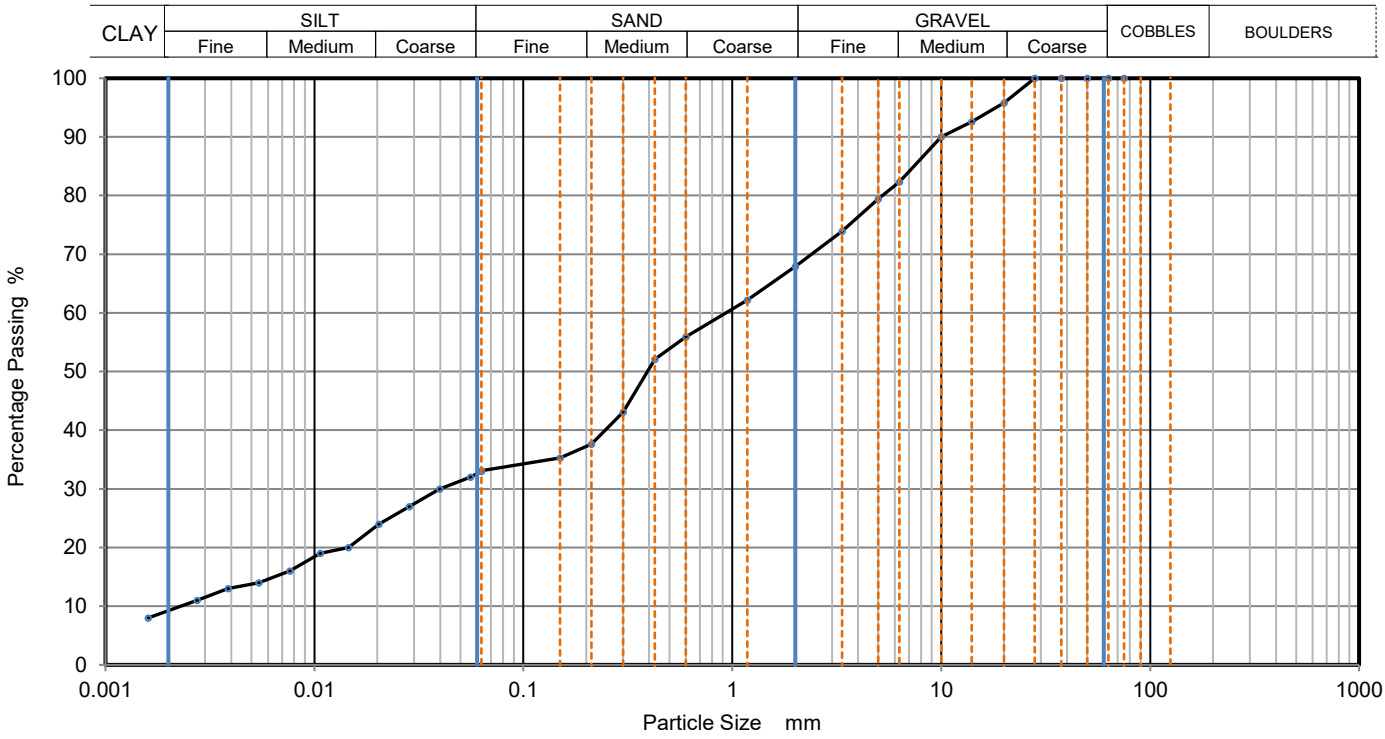
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M06A
Site Name	Lot 1, Lough Talt			Sample No.	16
Soil Description	Dark grey very silty SAND and GRAVEL.			Depth, m	5.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025090498



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	33
		0.0558	32
75	100	0.0397	30
63	100	0.0284	27
50	100	0.0203	24
37.5	100	0.0145	20
28	100	0.0107	19
20	96	0.0076	16
14	93	0.0054	14
10	90	0.0039	13
6.3	82	0.0027	11
5	79	0.0016	8
3.35	74		
2	68		
1.18	62		
0.6	56	Particle density (assumed)	
0.425	52	2.65	Mg/m3
0.3	43		
0.212	38		
0.15	35		
0.063	33		

Dry Mass of sample, g	826

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	35
Silt	24
Clay	9

Grading Analysis		
D100	mm	
D60	mm	0.932
D30	mm	0.0402
D10	mm	0.0023
Uniformity Coefficient		410
Curvature Coefficient		0.75

Remarks

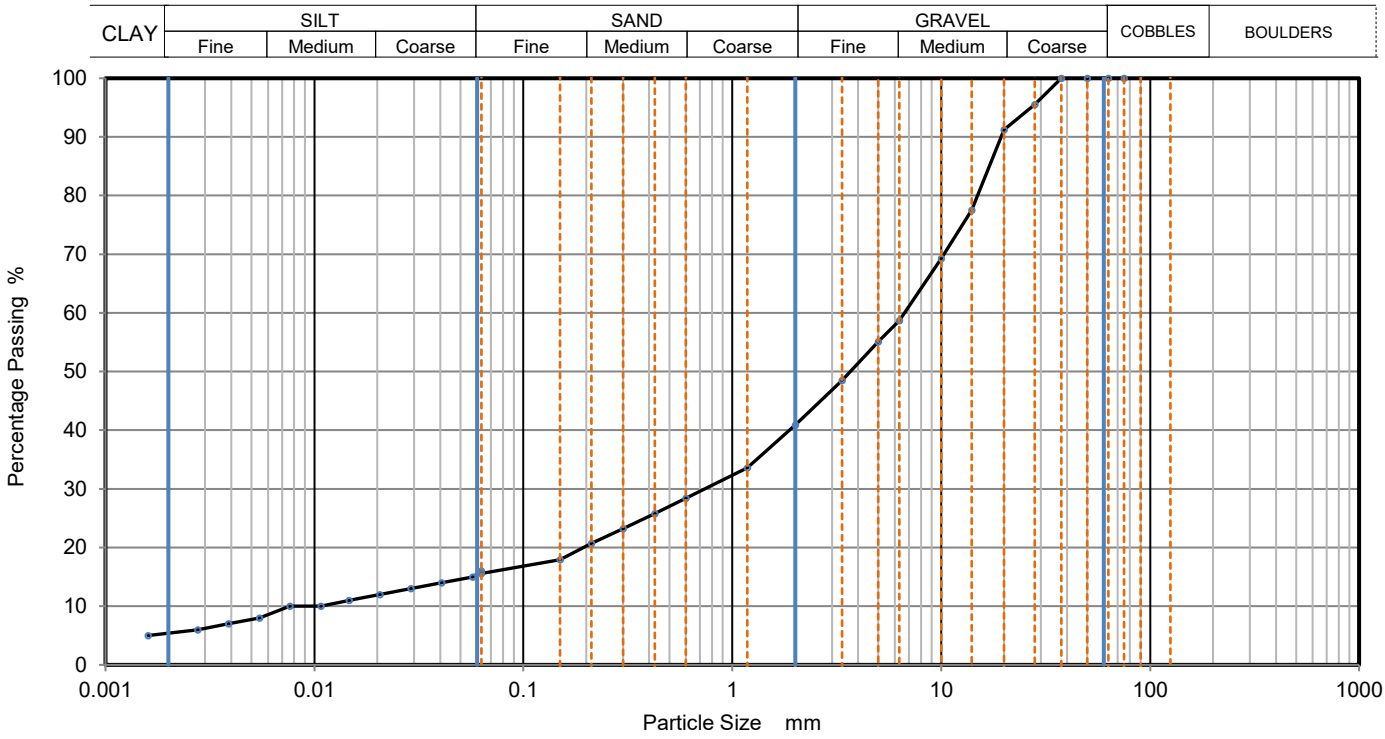
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M07
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark grey silty very sandy medium GRAVEL.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250724164



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	16
		0.0572	15
75	100	0.0407	14
63	100	0.0289	13
50	100	0.0206	12
37.5	100	0.0146	11
28	96	0.0107	10
20	91	0.0076	10
14	78	0.0055	8
10	69	0.0039	7
6.3	59	0.0028	6
5	55	0.0016	5
3.35	49		
2	41		
1.18	34		
0.6	28	Particle density (assumed)	
0.425	26	2.65 Mg/m3	
0.3	23		
0.212	21		
0.15	18		
0.063	16		

Dry Mass of sample, g	786

Sample Proportions	% dry mass
Very coarse	0
Gravel	59
Sand	25
Silt	10
Clay	6

Grading Analysis		
D100	mm	
D60	mm	6.68
D30	mm	0.741
D10	mm	0.00918
Uniformity Coefficient		730
Curvature Coefficient		8.9

Remarks

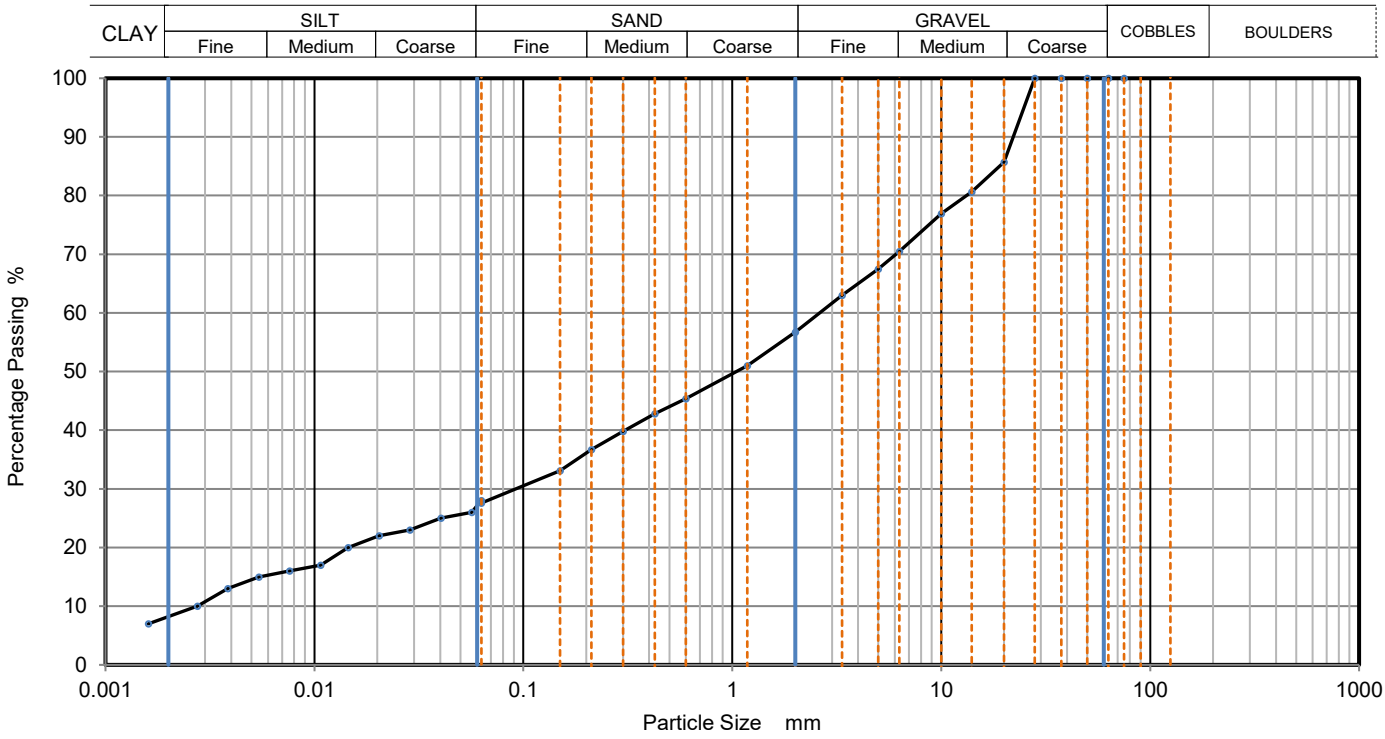
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M07
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Greyish-dark brown very silty very sandy GRAVEL.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250724167



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	28
		0.0567	26
75	100	0.0403	25
63	100	0.0287	23
50	100	0.0204	22
37.5	100	0.0145	20
28	100	0.0107	17
20	86	0.0076	16
14	81	0.0054	15
10	77	0.0038	13
6.3	71	0.0027	10
5	68	0.0016	7
3.35	63		
2	57		
1.18	51		
0.6	45	Particle density (assumed)	
0.425	43	2.65 Mg/m3	
0.3	40		
0.212	37		
0.15	33		
0.063	28		

Dry Mass of sample, g	884

Sample Proportions	% dry mass
Very coarse	0
Gravel	43
Sand	29
Silt	19
Clay	9

Grading Analysis		
D100	mm	
D60	mm	2.62
D30	mm	0.0917
D10	mm	0.00266
Uniformity Coefficient		980
Curvature Coefficient		1.2

Remarks

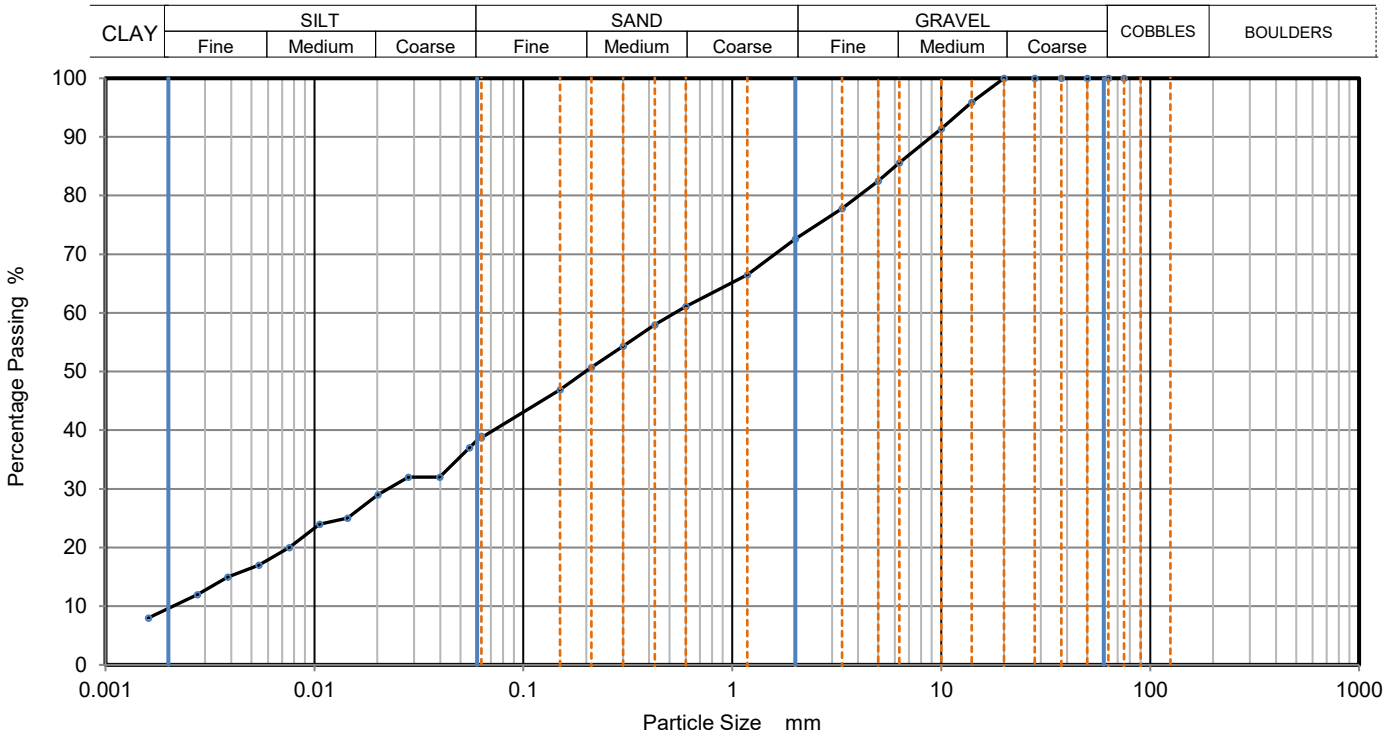
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M08
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Dark grey slightly gravelly sandy SILT.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250724180



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	39
		0.0553	37
75	100	0.0398	32
63	100	0.0282	32
50	100	0.0201	29
37.5	100	0.0144	25
28	100	0.0106	24
20	100	0.0076	20
14	96	0.0054	17
10	91	0.0038	15
6.3	86	0.0027	12
5	83	0.0016	8
3.35	78		
2	73		
1.18	67		
0.6	61	Particle density (assumed)	
0.425	58	2.65	Mg/m3
0.3	54		
0.212	51		
0.15	47		
0.063	39		

Dry Mass of sample, g	725

Sample Proportions	% dry mass
Very coarse	0
Gravel	27
Sand	34
Silt	29
Clay	10

Grading Analysis		
D100	mm	
D60	mm	0.531
D30	mm	0.0231
D10	mm	0.00207
Uniformity Coefficient		260
Curvature Coefficient		0.49

Remarks

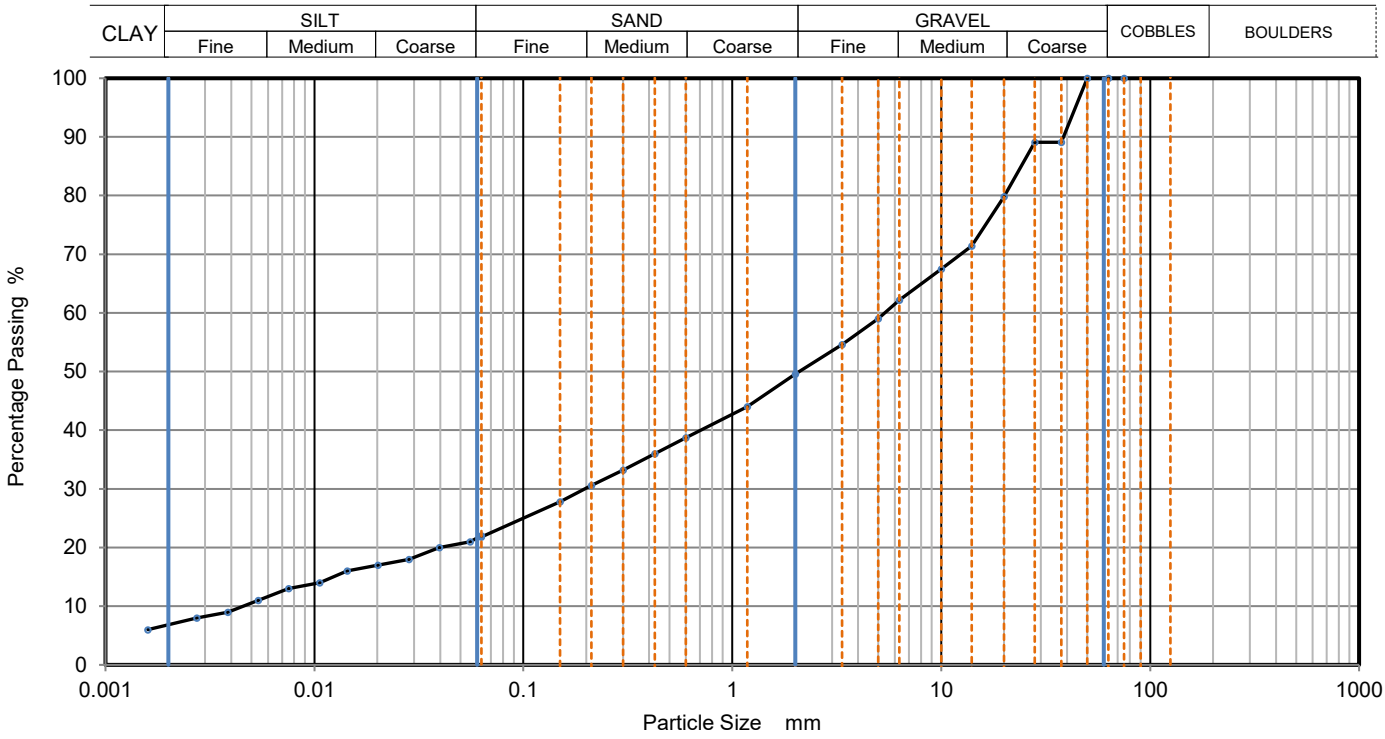
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M08
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Dark grey very silty very sandy GRAVEL.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250724183



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	22
		0.0556	21
75	100	0.0396	20
63	100	0.0283	18
50	100	0.0201	17
37.5	89	0.0143	16
28	89	0.0106	14
20	80	0.0075	13
14	71	0.0054	11
10	68	0.0038	9
6.3	62	0.0027	8
5	59	0.0016	6
3.35	55		
2	50		
1.18	44		
0.6	39	Particle density (assumed)	
0.425	36	2.65 Mg/m3	
0.3	33		
0.212	31		
0.15	28		
0.063	22		

Dry Mass of sample, g	827

Sample Proportions	% dry mass
Very coarse	0
Gravel	50
Sand	28
Silt	15
Clay	7

Grading Analysis		
D100	mm	
D60	mm	5.37
D30	mm	0.198
D10	mm	0.00462
Uniformity Coefficient		1200
Curvature Coefficient		1.6

Remarks

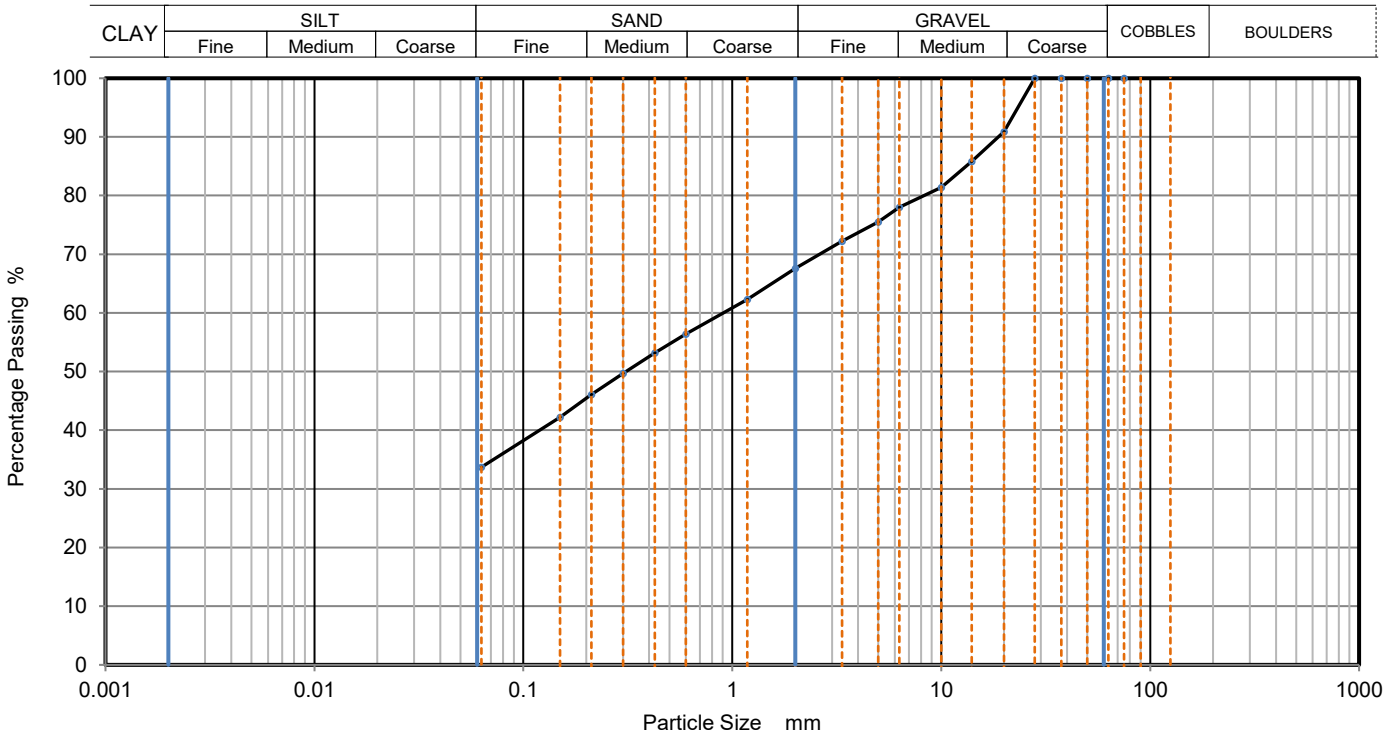
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M09
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown slightly gravelly sandy SILT.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250724188



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	91		
14	86		
10	81		
6.3	78		
5	76		
3.35	72		
2	68		
1.18	62		
0.6	56		
0.425	53		
0.3	50		
0.212	46		
0.15	42		
0.063	34		

Dry Mass of sample, g	765

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	34
Fines <0.063mm	34

Grading Analysis		
D100	mm	
D60	mm	0.905
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

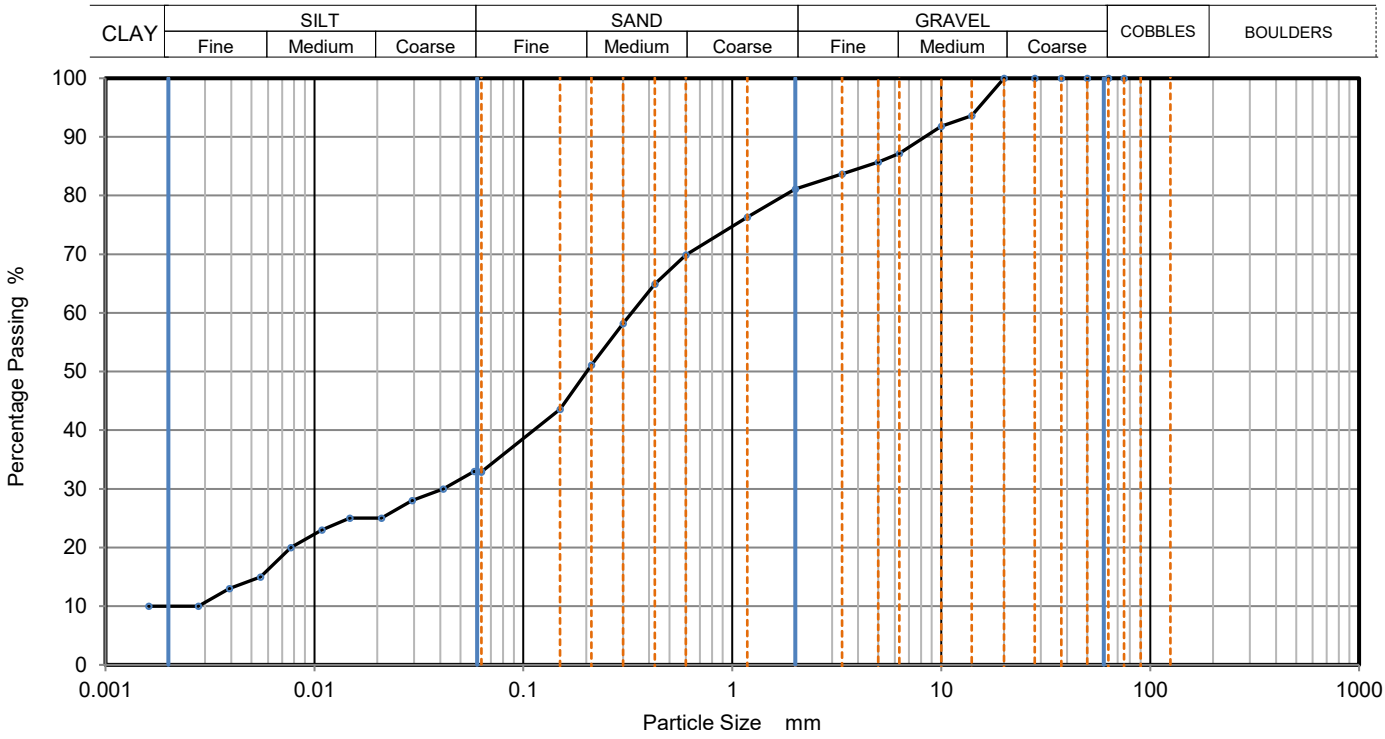
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M09
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Dark grey gravelly very silty SAND.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250724197



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	33
		0.0582	33
75	100	0.0414	30
63	100	0.0294	28
50	100	0.0209	25
37.5	100	0.0148	25
28	100	0.0109	23
20	100	0.0077	20
14	94	0.0055	15
10	92	0.0039	13
6.3	87	0.0028	10
5	86	0.0016	10
3.35	84		
2	81		
1.18	76		
0.6	70	Particle density (assumed)	
0.425	65	2.65 Mg/m3	
0.3	58		
0.212	51		
0.15	44		
0.063	33		

Dry Mass of sample, g	619

Sample Proportions	% dry mass
Very coarse	0
Gravel	19
Sand	48
Silt	23
Clay	10

Grading Analysis		
D100	mm	
D60	mm	0.33
D30	mm	0.0394
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

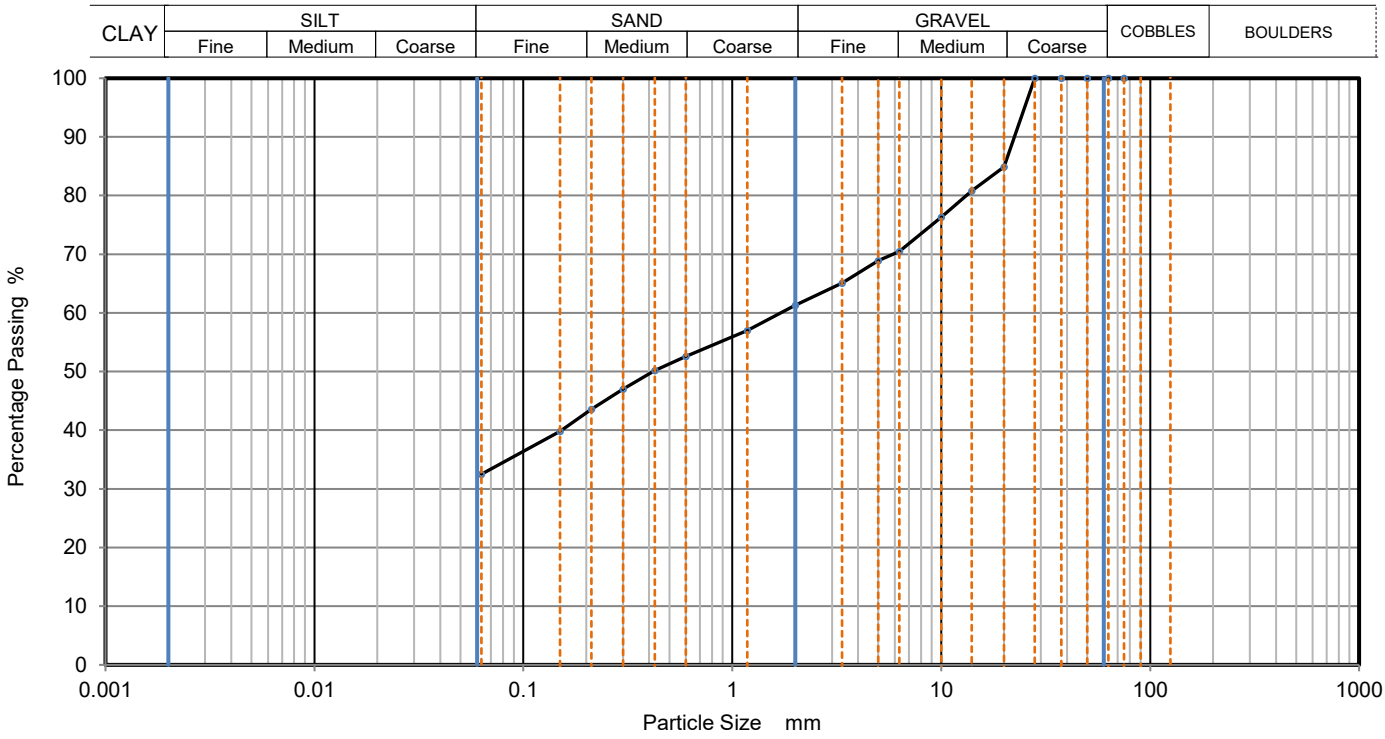
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

	PARTICLE SIZE DISTRIBUTION			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M10
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown very sandy very silty GRAVEL.			Depth, m	0.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250724200



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	85		
14	81		
10	76		
6.3	71		
5	69		
3.35	65		
2	61		
1.18	57		
0.6	53		
0.425	50		
0.3	47		
0.212	44		
0.15	40		
0.063	33		

Dry Mass of sample, g	656

Sample Proportions	% dry mass
Very coarse	0
Gravel	39
Sand	29
Fines <0.063mm	33

Grading Analysis		
D100	mm	
D60	mm	1.7
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

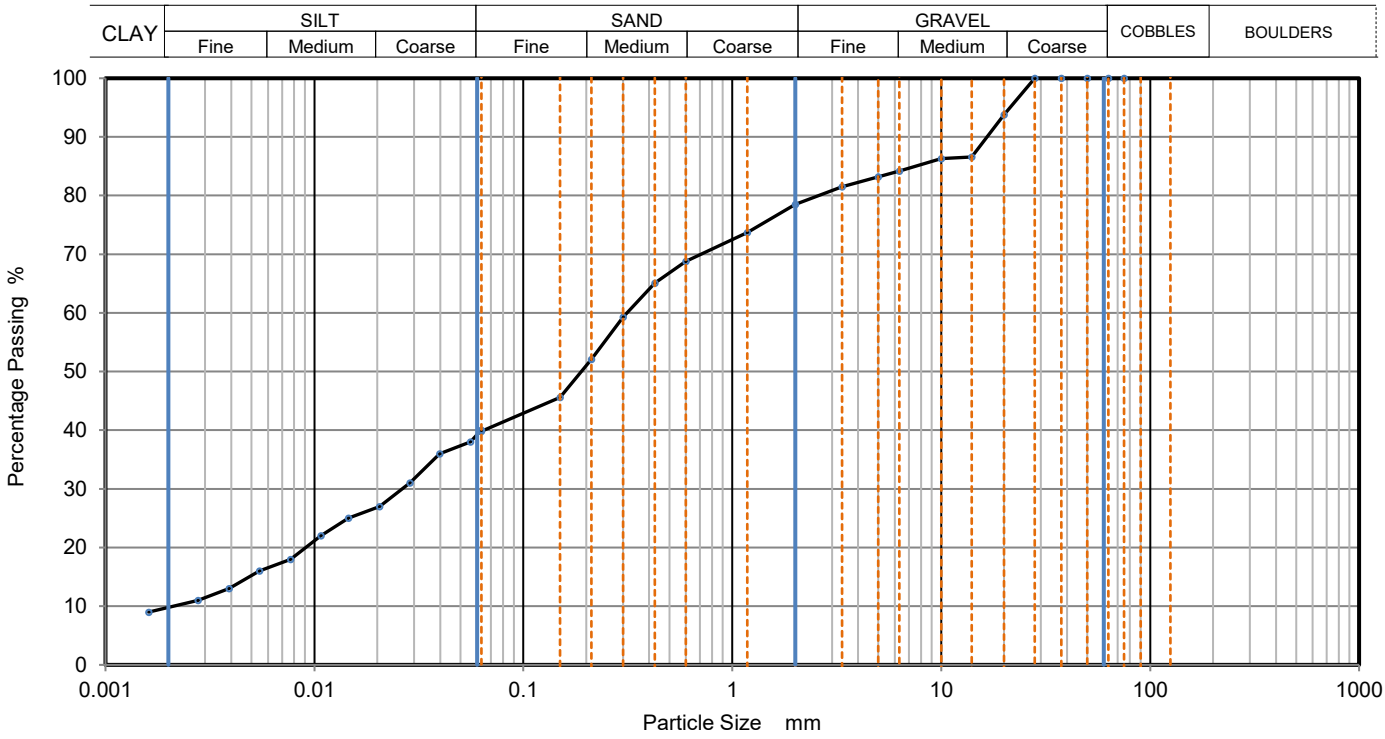
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

	PARTICLE SIZE DISTRIBUTION			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M10
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Dark brown slightly gravelly sandy SILT.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250724206



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	40
		0.0558	38
75	100	0.0397	36
63	100	0.0286	31
50	100	0.0205	27
37.5	100	0.0145	25
28	100	0.0107	22
20	94	0.0077	18
14	87	0.0055	16
10	86	0.0039	13
6.3	84	0.0028	11
5	83	0.0016	9
3.35	82		
2	79		
1.18	74		
0.6	69	Particle density (assumed)	
0.425	65	2.65	Mg/m3
0.3	59		
0.212	52		
0.15	46		
0.063	40		

Dry Mass of sample, g	537

Sample Proportions	% dry mass
Very coarse	0
Gravel	22
Sand	39
Silt	30
Clay	10

Grading Analysis		
D100	mm	
D60	mm	0.312
D30	mm	0.0267
D10	mm	0.00215
Uniformity Coefficient		150
Curvature Coefficient		1.1

Remarks

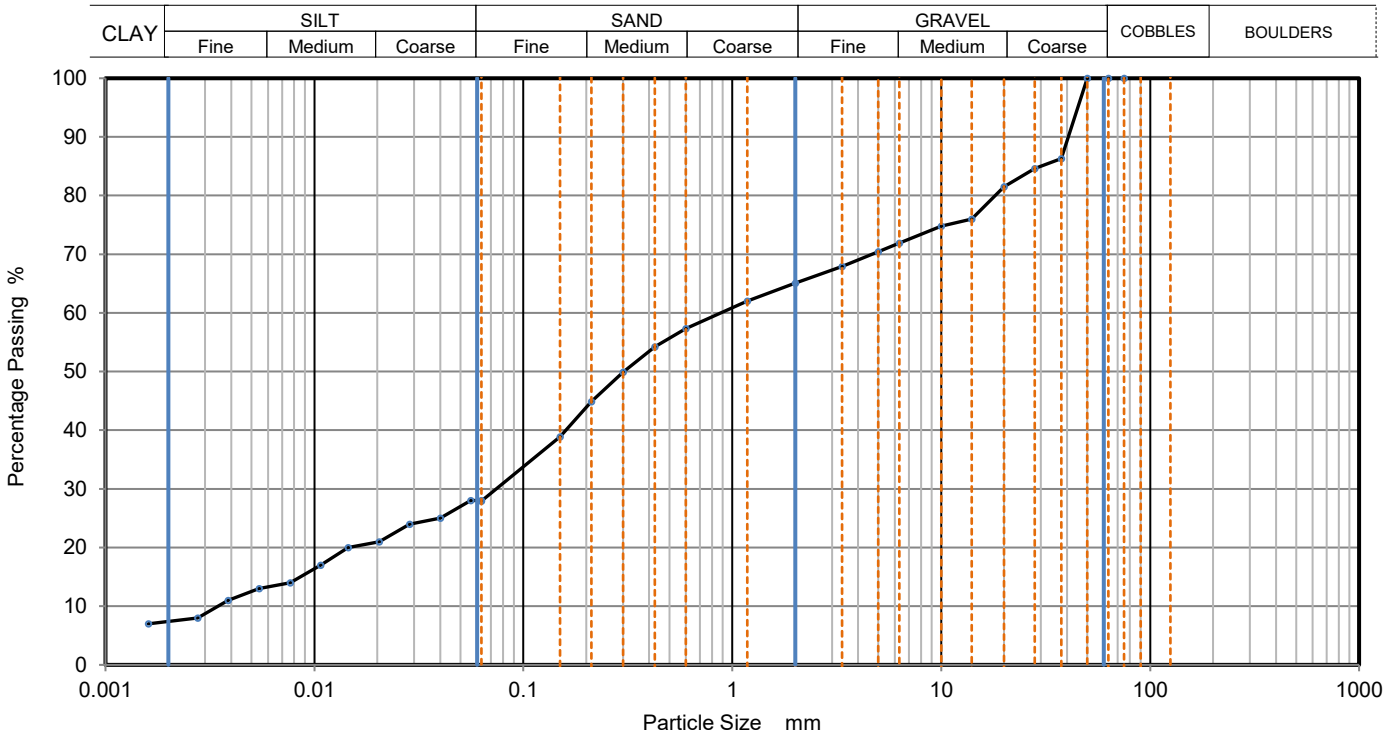
Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	Approved	Sheet printed	
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M10
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Brown very silty SAND and GRAVEL.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250724209



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	28
		0.0560	28
75	100	0.0401	25
63	100	0.0285	24
50	100	0.0204	21
37.5	86	0.0145	20
28	85	0.0107	17
20	82	0.0077	14
14	76	0.0054	13
10	75	0.0039	11
6.3	72	0.0028	8
5	70	0.0016	7
3.35	68		
2	65		
1.18	62		
0.6	57	Particle density (assumed)	
0.425	54	2.65 Mg/m3	
0.3	50		
0.212	45		
0.15	39		
0.063	28		

Dry Mass of sample, g	598

Sample Proportions	% dry mass
Very coarse	0
Gravel	35
Sand	37
Silt	20
Clay	8

Grading Analysis		
D100	mm	
D60	mm	0.887
D30	mm	0.0743
D10	mm	0.00336
Uniformity Coefficient		260
Curvature Coefficient		1.8

Remarks

Preparation and testing in accordance with BS1377 unless noted below

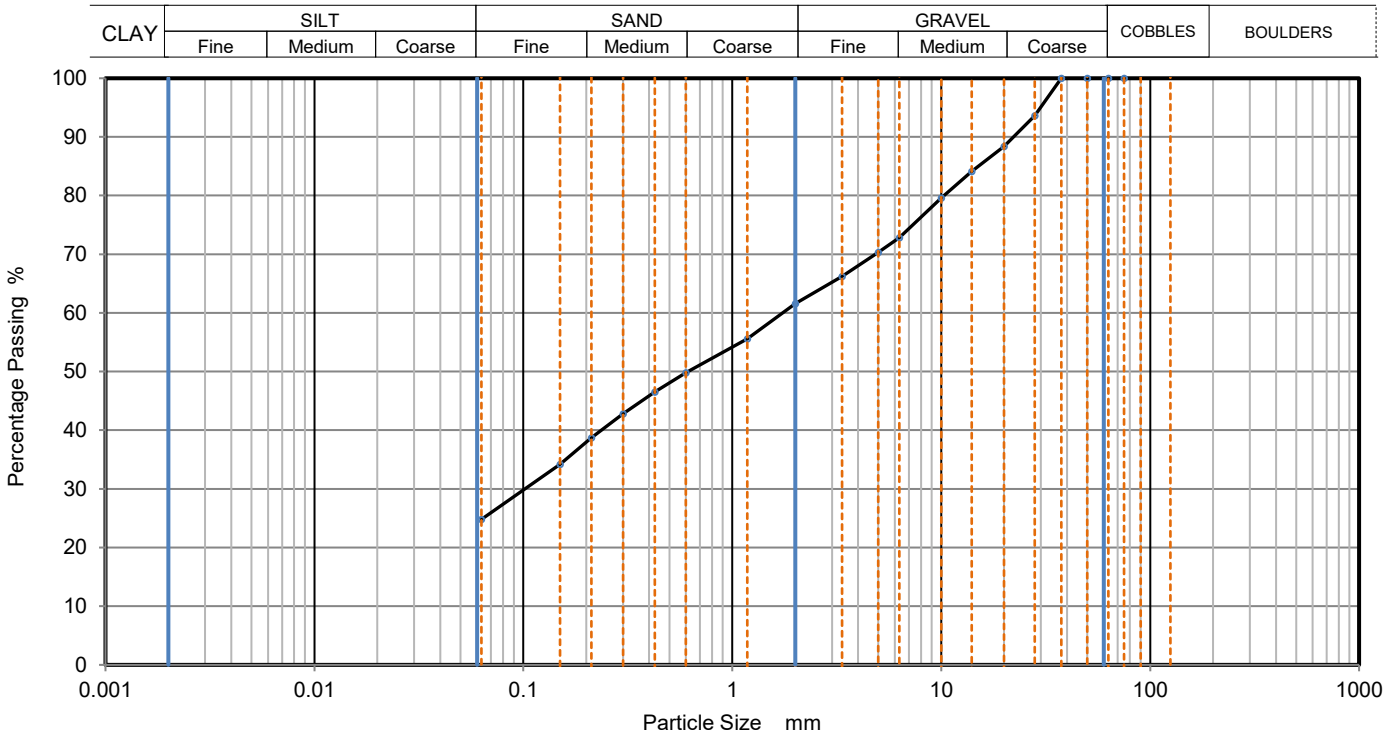
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M10
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Greyish light brown very silty SAND and GRAVEL.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250724212



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	94		
20	88		
14	84		
10	80		
6.3	73		
5	70		
3.35	66		
2	62		
1.18	56		
0.6	50		
0.425	47		
0.3	43		
0.212	39		
0.15	34		
0.063	25		

Dry Mass of sample, g	715

Sample Proportions	% dry mass
Very coarse	0
Gravel	38
Sand	37
Fines <0.063mm	25

Grading Analysis		
D100	mm	
D60	mm	1.74
D30	mm	0.102
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

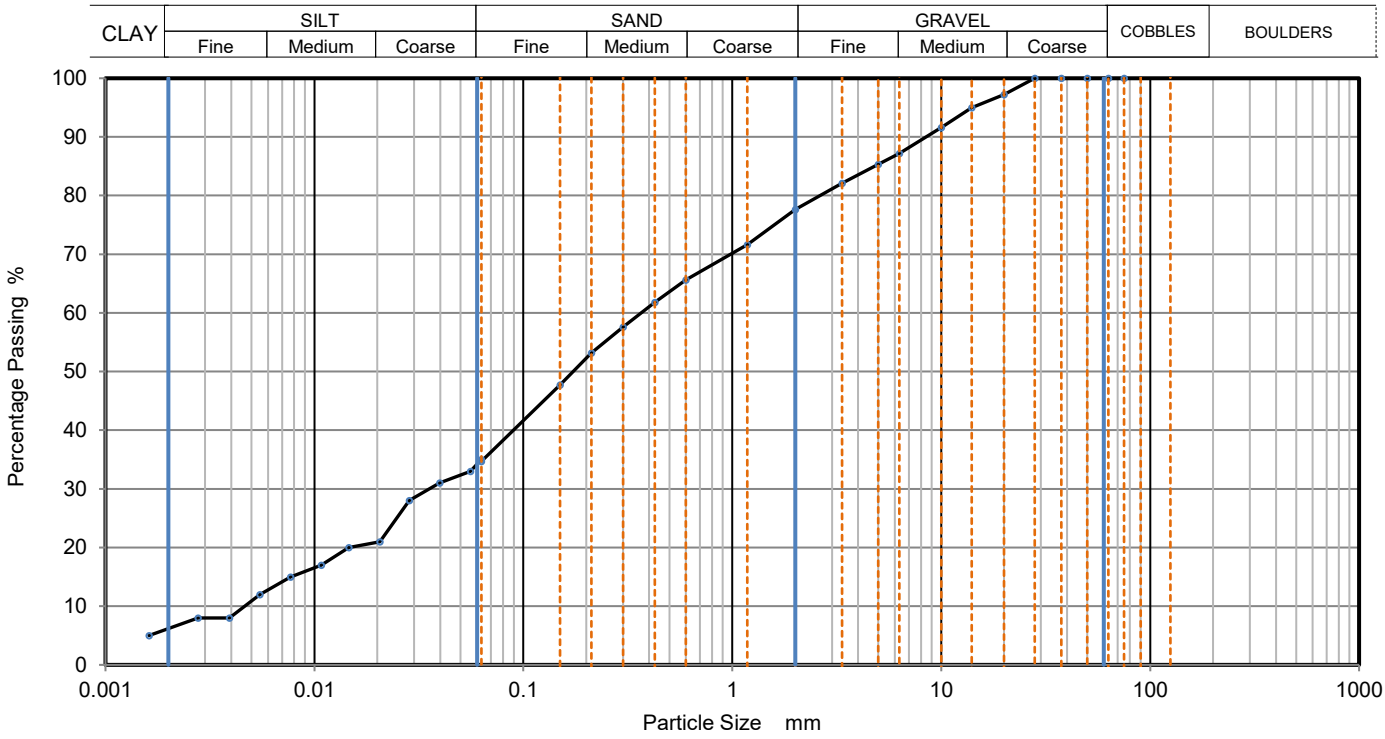
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M14
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark grey slightly gravelly sandy SILT.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202507117



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	35
		0.0558	33
75	100	0.0397	31
63	100	0.0284	28
50	100	0.0206	21
37.5	100	0.0146	20
28	100	0.0108	17
20	97	0.0077	15
14	95	0.0055	12
10	92	0.0039	8
6.3	87	0.0028	8
5	85	0.0016	5
3.35	82		
2	78		
1.18	72		
0.6	66	Particle density (assumed)	
0.425	62	2.65 Mg/m3	
0.3	58		
0.212	53		
0.15	48		
0.063	35		

Dry Mass of sample, g	821

Sample Proportions	% dry mass
Very coarse	0
Gravel	22
Sand	43
Silt	28
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.366
D30	mm	0.0345
D10	mm	0.00468
Uniformity Coefficient		78
Curvature Coefficient		0.69

Remarks

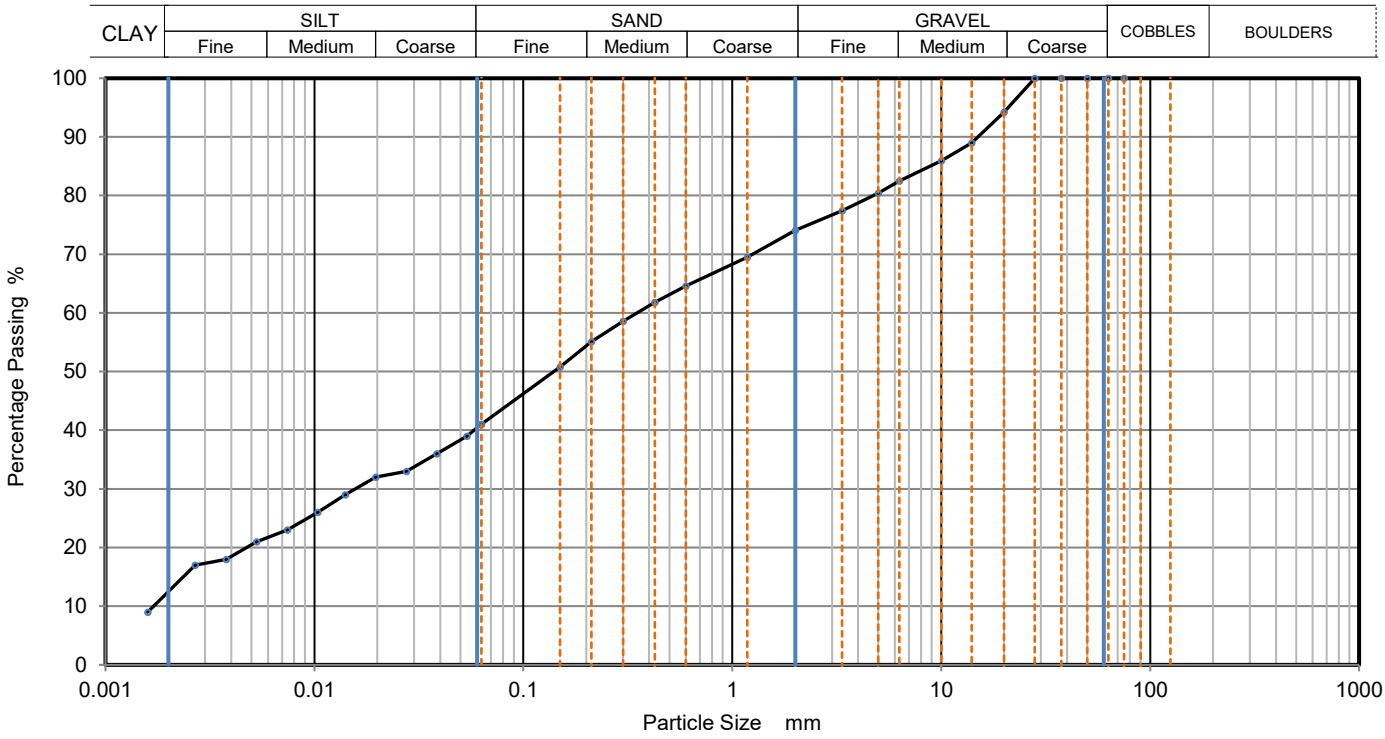
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M14
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Grey slightly gravelly slightly sandy SILT.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071113



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	41
		0.0538	39
75	100	0.0385	36
63	100	0.0276	33
50	100	0.0196	32
37.5	100	0.0140	29
28	100	0.0104	26
20	94	0.0074	23
14	89	0.0053	21
10	86	0.0038	18
6.3	83	0.0027	17
5	80	0.0016	9
3.35	77		
2	74		
1.18	70		
0.6	65	Particle density (assumed)	
0.425	62	2.65	Mg/m3
0.3	59		
0.212	55		
0.15	51		
0.063	41		

Dry Mass of sample, g	767

Sample Proportions	% dry mass
Very coarse	0
Gravel	26
Sand	33
Silt	29
Clay	12

Grading Analysis		
D100	mm	
D60	mm	0.349
D30	mm	0.0159
D10	mm	0.00169
Uniformity Coefficient		210
Curvature Coefficient		0.43

Remarks

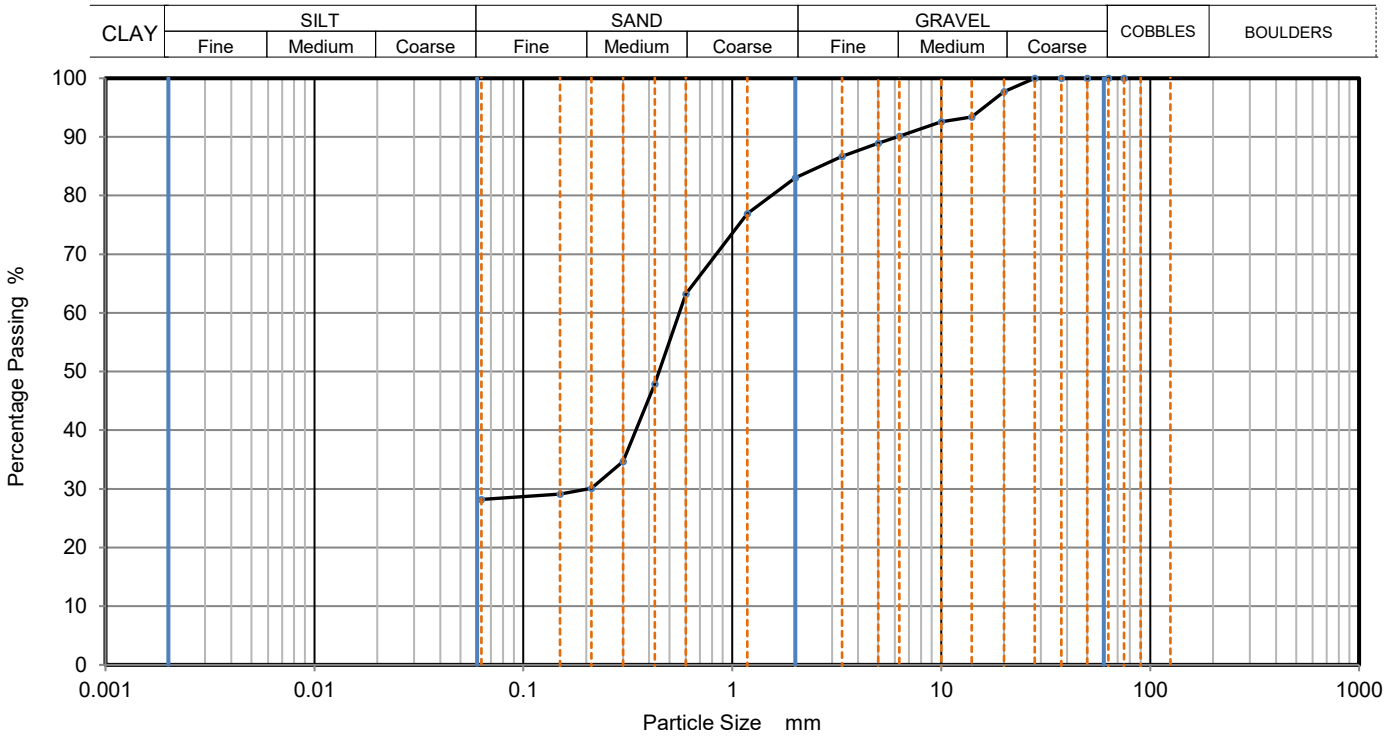
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M15
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown gravelly very silty medium and coarse SAND.			Depth, m	0.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042460



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	93		
10	93		
6.3	90		
5	89		
3.35	87		
2	83		
1.18	77		
0.6	63		
0.425	48		
0.3	35		
0.212	30		
0.15	29		
0.063	28		

Dry Mass of sample, g	606

Sample Proportions	% dry mass
Very coarse	0
Gravel	17
Sand	55
Fines <0.063mm	28

Grading Analysis		
D100	mm	
D60	mm	0.558
D30	mm	0.207
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

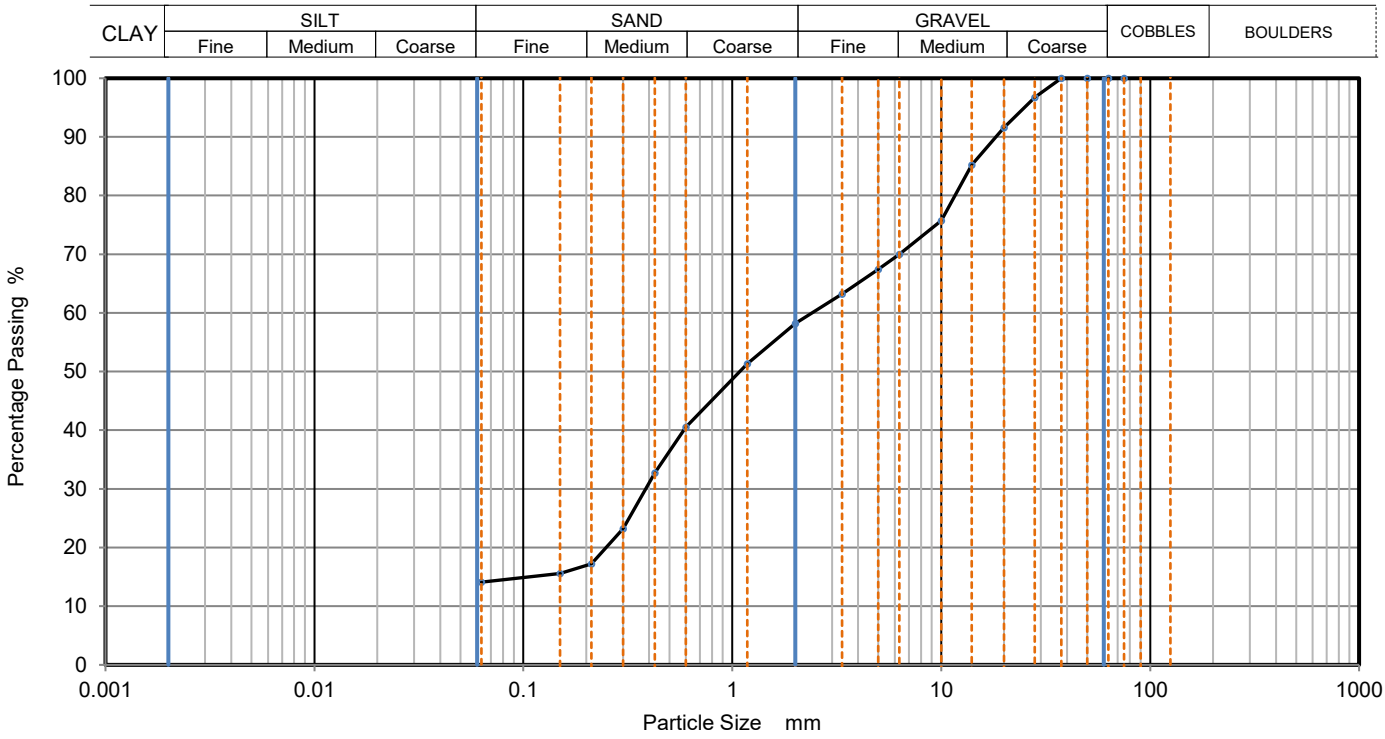
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M15
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Grey silty medium SAND and medium GRAVEL.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042463



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	97		
20	92		
14	85		
10	76		
6.3	70		
5	67		
3.35	63		
2	58		
1.18	51		
0.6	41		
0.425	33		
0.3	23		
0.212	17		
0.15	16		
0.063	14		

Dry Mass of sample, g	838

Sample Proportions	% dry mass
Very coarse	0
Gravel	42
Sand	44
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	2.41
D30	mm	0.385
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

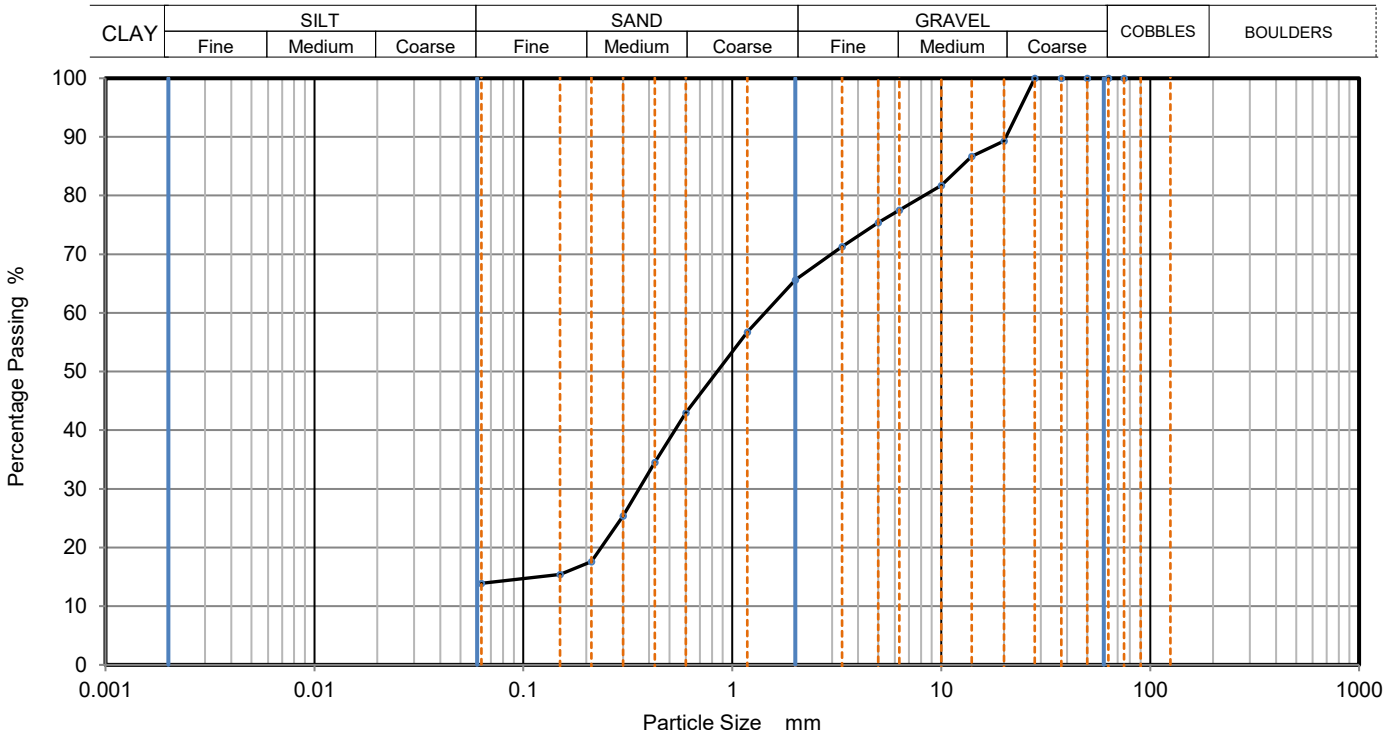
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M15
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Grey silty very gravelly medium and coarse SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042466



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	89		
14	87		
10	82		
6.3	78		
5	75		
3.35	71		
2	66		
1.18	57		
0.6	43		
0.425	35		
0.3	25		
0.212	18		
0.15	15		
0.063	14		

Dry Mass of sample, g	838

Sample Proportions	% dry mass
Very coarse	0
Gravel	34
Sand	52
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	1.43
D30	mm	0.358
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

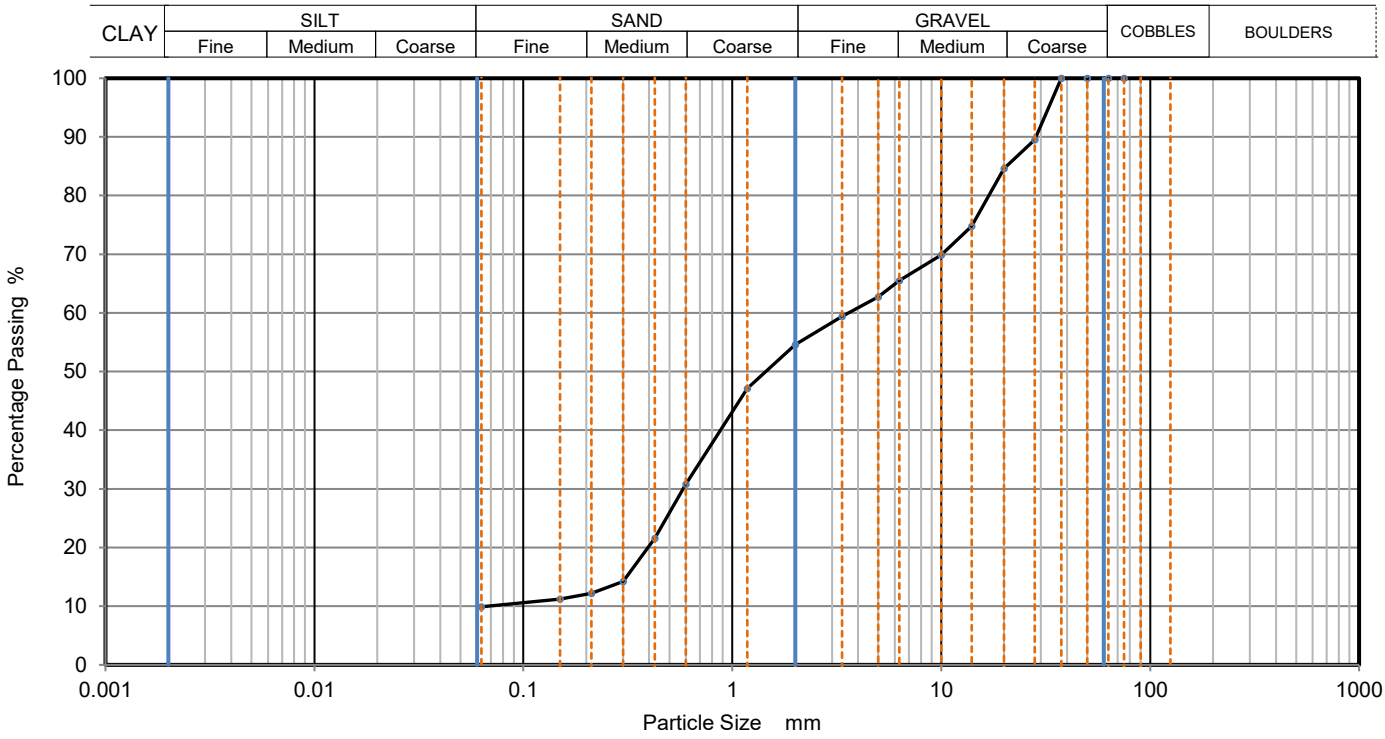
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M15
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Grey silty SAND and GRAVEL. Sand is coarse.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042469



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	90		
20	85		
14	75		
10	70		
6.3	66		
5	63		
3.35	59		
2	55		
1.18	47		
0.6	31		
0.425	22		
0.3	14		
0.212	12		
0.15	11		
0.063	10		

Dry Mass of sample, g	885

Sample Proportions	% dry mass
Very coarse	0
Gravel	45
Sand	45
Fines <0.063mm	10

Grading Analysis		
D100	mm	
D60	mm	3.6
D30	mm	0.583
D10	mm	0.0659
Uniformity Coefficient		55
Curvature Coefficient		1.4

Remarks

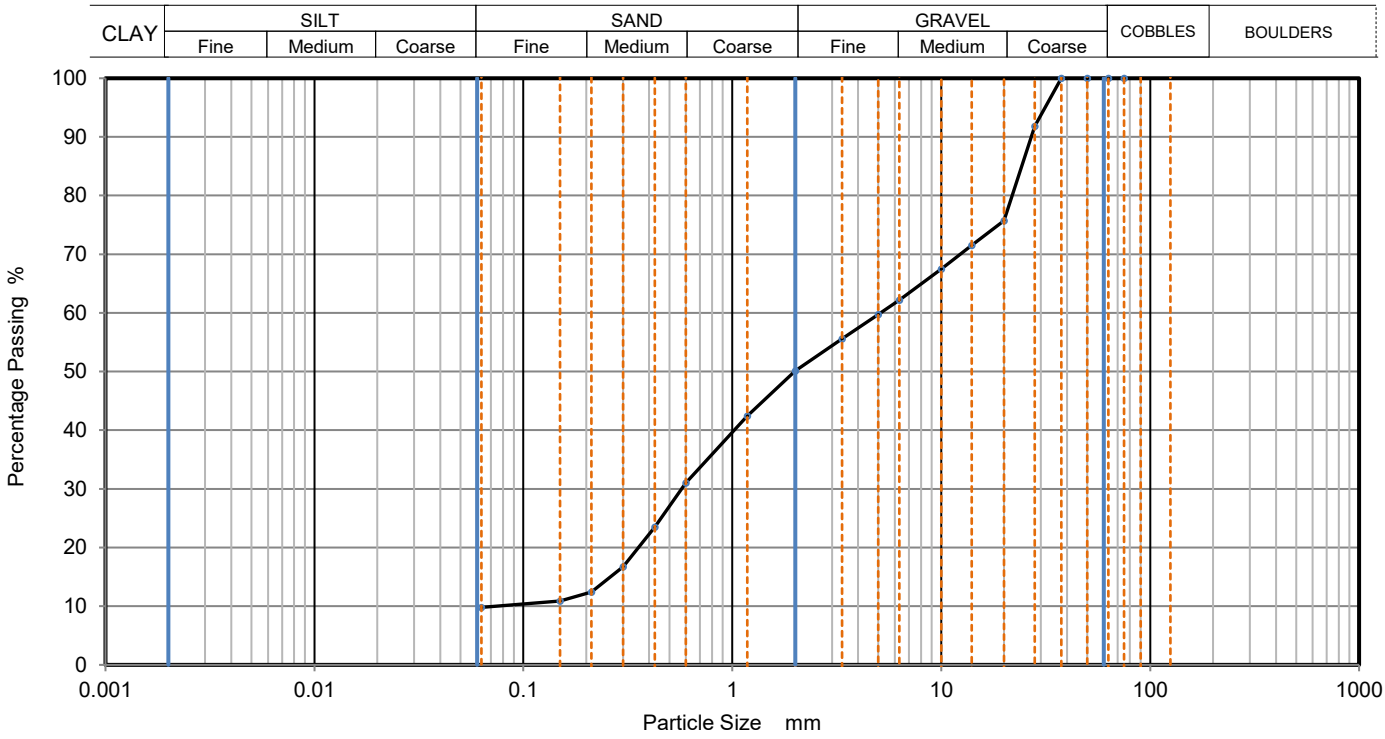
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M15
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Grey silty very sandy coarse GRAVEL.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042472



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	92		
20	76		
14	72		
10	68		
6.3	62		
5	60		
3.35	56		
2	50		
1.18	42		
0.6	31		
0.425	24		
0.3	17		
0.212	12		
0.15	11		
0.063	10		

Dry Mass of sample, g	783

Sample Proportions	% dry mass
Very coarse	0
Gravel	50
Sand	40
Fines <0.063mm	10

Grading Analysis		
D100	mm	
D60	mm	5.15
D30	mm	0.574
D10	mm	0.0728
Uniformity Coefficient		71
Curvature Coefficient		0.88

Remarks

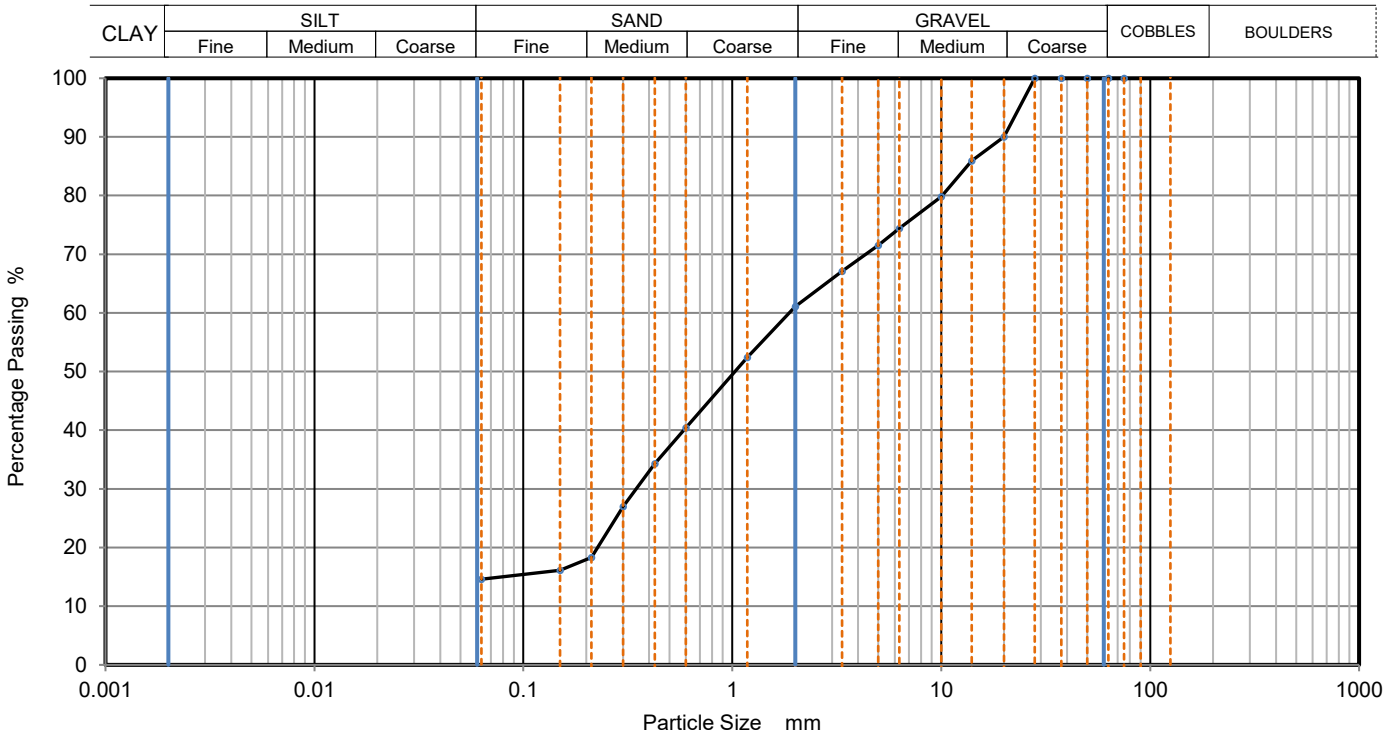
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M16
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown silty very gravelly medium and coarse SAND.			Depth, m	0.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042358



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	90		
14	86		
10	80		
6.3	74		
5	72		
3.35	67		
2	61		
1.18	52		
0.6	40		
0.425	34		
0.3	27		
0.212	18		
0.15	16		
0.063	15		

Dry Mass of sample, g	781

Sample Proportions	% dry mass
Very coarse	0
Gravel	39
Sand	47
Fines <0.063mm	15

Grading Analysis		
D100	mm	
D60	mm	1.87
D30	mm	0.346
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

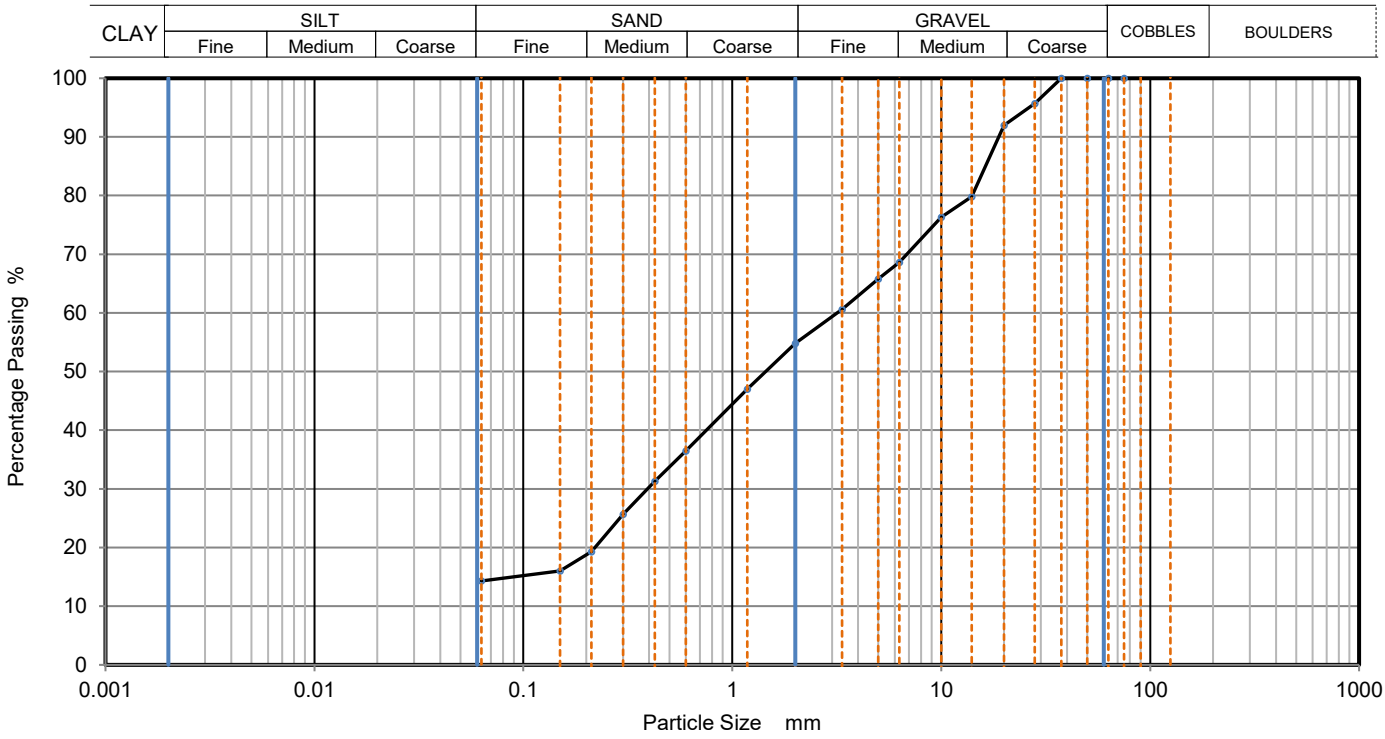
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M16
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark grey silty SAND and GRAVEL. Gravel is mostly medium.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042361



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	96		
20	92		
14	80		
10	76		
6.3	69		
5	66		
3.35	61		
2	55		
1.18	47		
0.6	37		
0.425	31		
0.3	26		
0.212	19		
0.15	16		
0.063	14		

Dry Mass of sample, g	720

Sample Proportions	% dry mass
Very coarse	0
Gravel	45
Sand	41
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	3.19
D30	mm	0.392
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

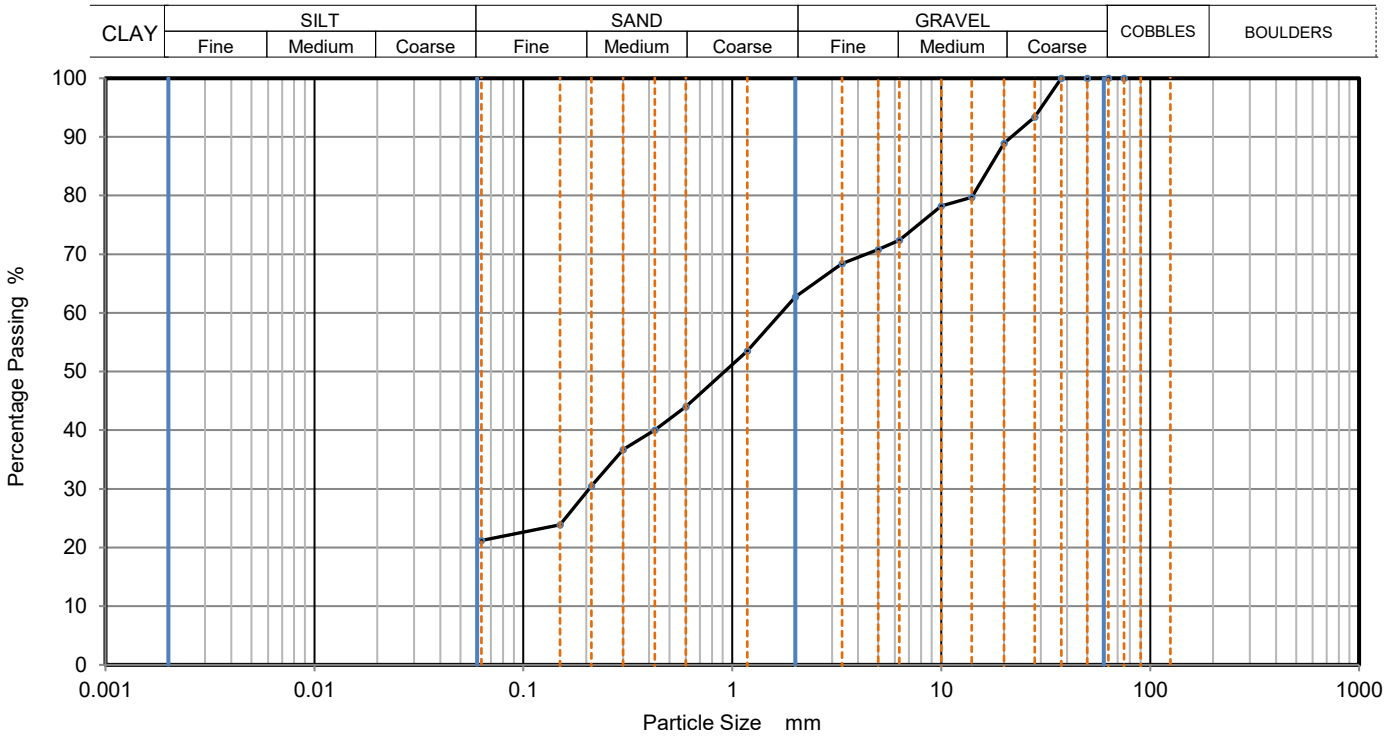
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M16
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Greyish-brown very silty very gravelly SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042364



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	93		
20	89		
14	80		
10	78		
6.3	72		
5	71		
3.35	68		
2	63		
1.18	54		
0.6	44		
0.425	40		
0.3	37		
0.212	31		
0.15	24		
0.063	21		

Dry Mass of sample, g	747

Sample Proportions	% dry mass
Very coarse	0
Gravel	37
Sand	42
Fines <0.063mm	21

Grading Analysis		
D100	mm	
D60	mm	1.71
D30	mm	0.206
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

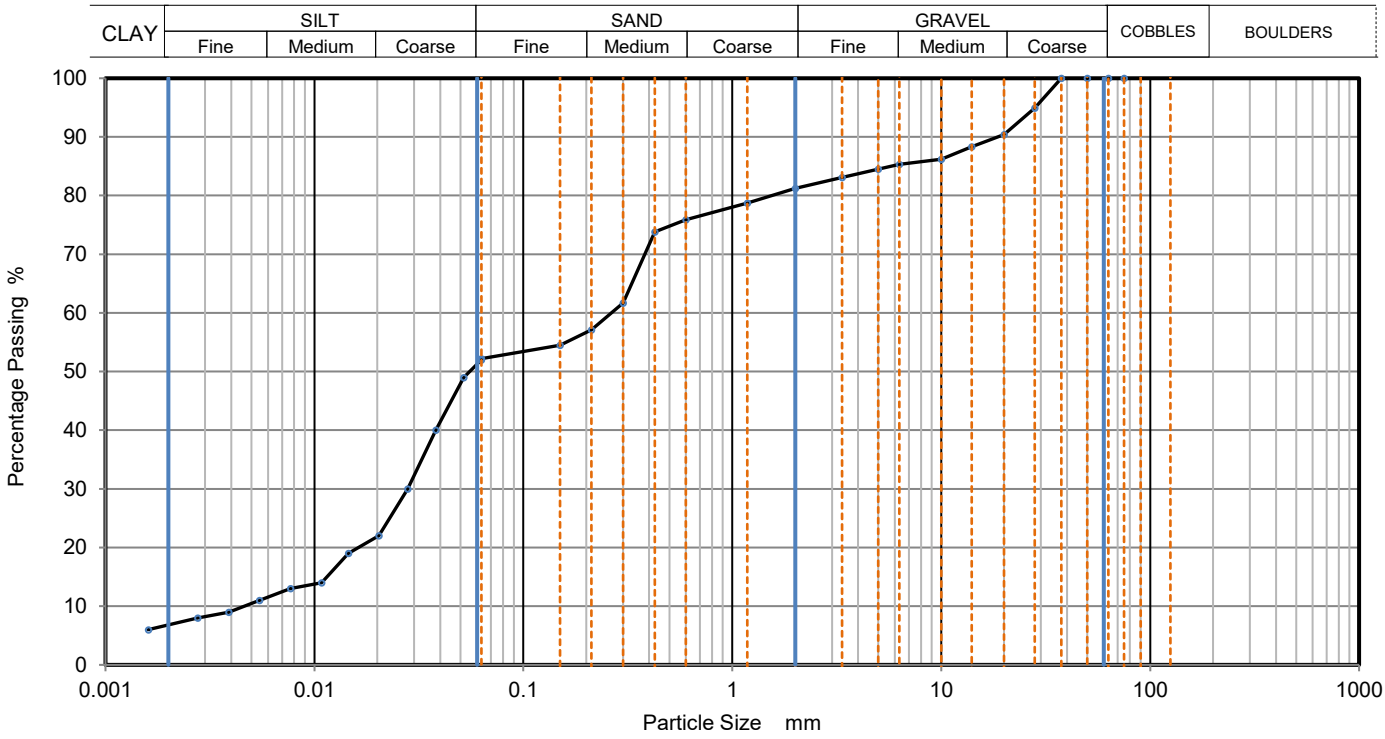
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M16
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Grey slightly gravelly slightly sandy SILT.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042367



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	52
		0.0518	49
75	100	0.0381	40
63	100	0.0280	30
50	100	0.0204	22
37.5	100	0.0146	19
28	95	0.0108	14
20	90	0.0077	13
14	88	0.0055	11
10	86	0.0039	9
6.3	85	0.0028	8
5	85	0.0016	6
3.35	83		
2	81		
1.18	79		
0.6	76	Particle density (assumed)	
0.425	74	2.65 Mg/m3	
0.3	62		
0.212	57		
0.15	55		
0.063	52		

Dry Mass of sample, g	854

Sample Proportions	% dry mass
Very coarse	0
Gravel	19
Sand	29
Silt	45
Clay	7

Grading Analysis		
D100	mm	
D60	mm	0.264
D30	mm	0.0279
D10	mm	0.00434
Uniformity Coefficient		61
Curvature Coefficient		0.68

Remarks

Preparation and testing in accordance with BS1377 unless noted below

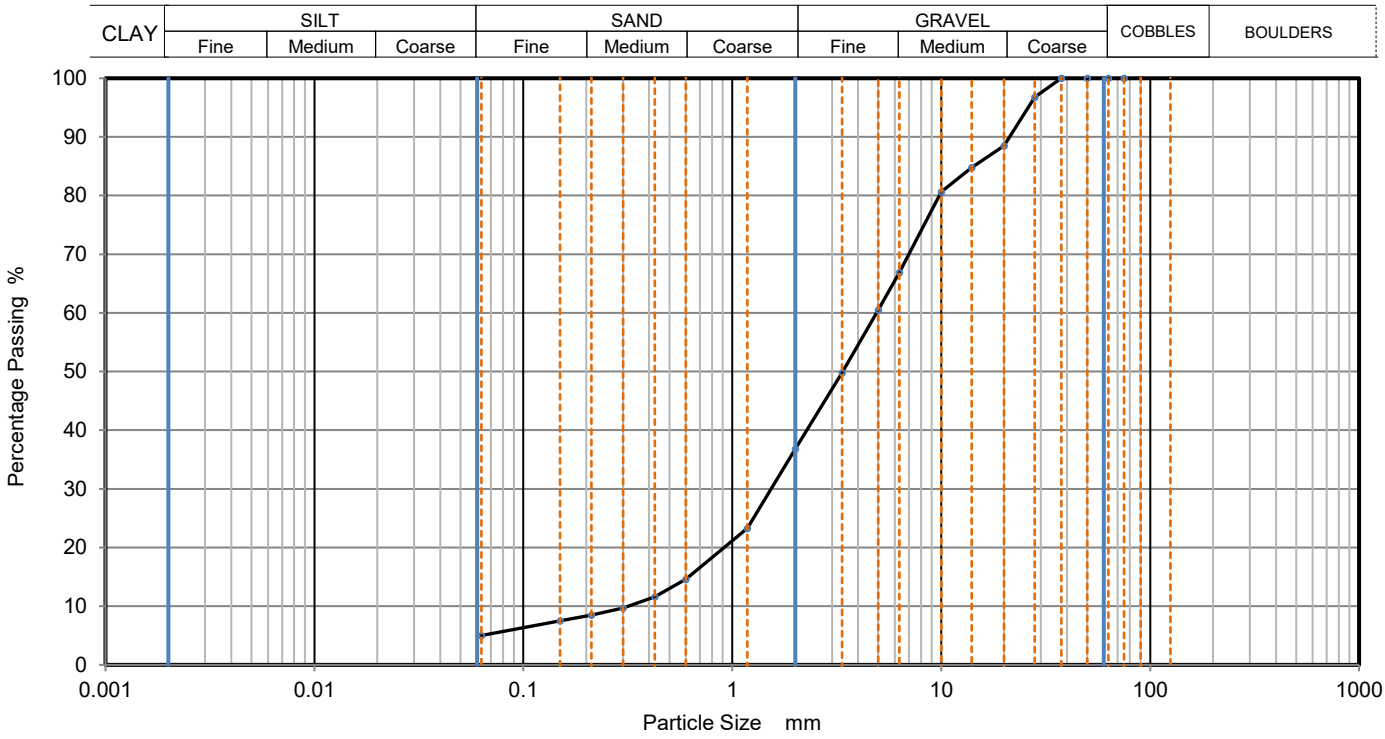
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M16
Site Name	Lot 1, Lough Talt			Sample No.	16
Soil Description	Bluish-grey silty very sandy fine and medium GRAVEL. Sand is coarse.			Depth, m	5.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042373



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	97		
20	89		
14	85		
10	81		
6.3	67		
5	61		
3.35	50		
2	37		
1.18	23		
0.6	15		
0.425	12		
0.3	10		
0.212	9		
0.15	8		
0.063	5		

Dry Mass of sample, g	860

Sample Proportions	% dry mass
Very coarse	0
Gravel	63
Sand	32
Fines <0.063mm	5

Grading Analysis		
D100	mm	
D60	mm	4.9
D30	mm	1.53
D10	mm	0.317
Uniformity Coefficient		15
Curvature Coefficient		1.5

Remarks

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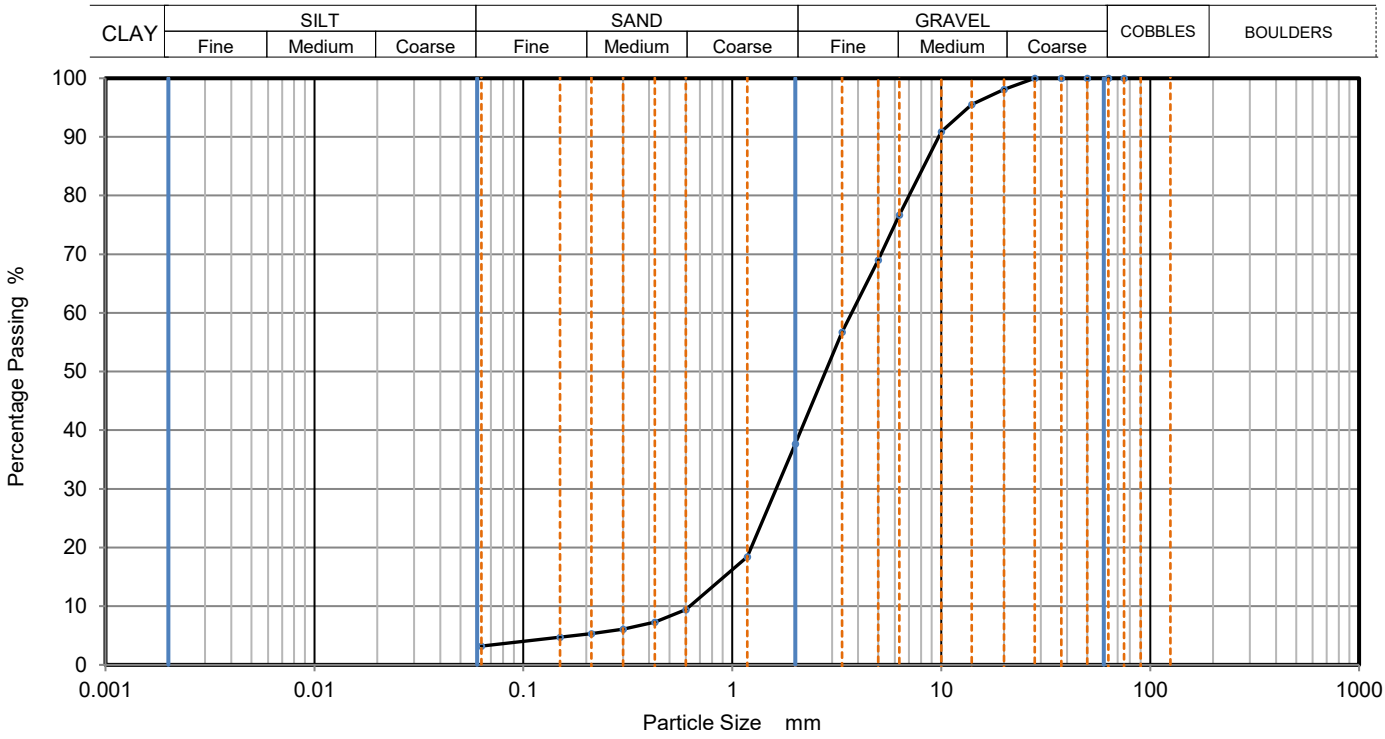
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M16
Site Name	Lot 1, Lough Talt			Sample No.	19
Soil Description	Bluish-grey slightly silty very sandy fine and medium GRAVEL. Sand is coarse.			Depth, m	6.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042376



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	96		
10	91		
6.3	77		
5	69		
3.35	57		
2	38		
1.18	18		
0.6	9		
0.425	7		
0.3	6		
0.212	5		
0.15	5		
0.063	3		

Dry Mass of sample, g	821

Sample Proportions	% dry mass
Very coarse	0
Gravel	62
Sand	35
Fines <0.063mm	3

Grading Analysis		
D100	mm	
D60	mm	3.73
D30	mm	1.62
D10	mm	0.628
Uniformity Coefficient		5.9
Curvature Coefficient		1.1

Remarks

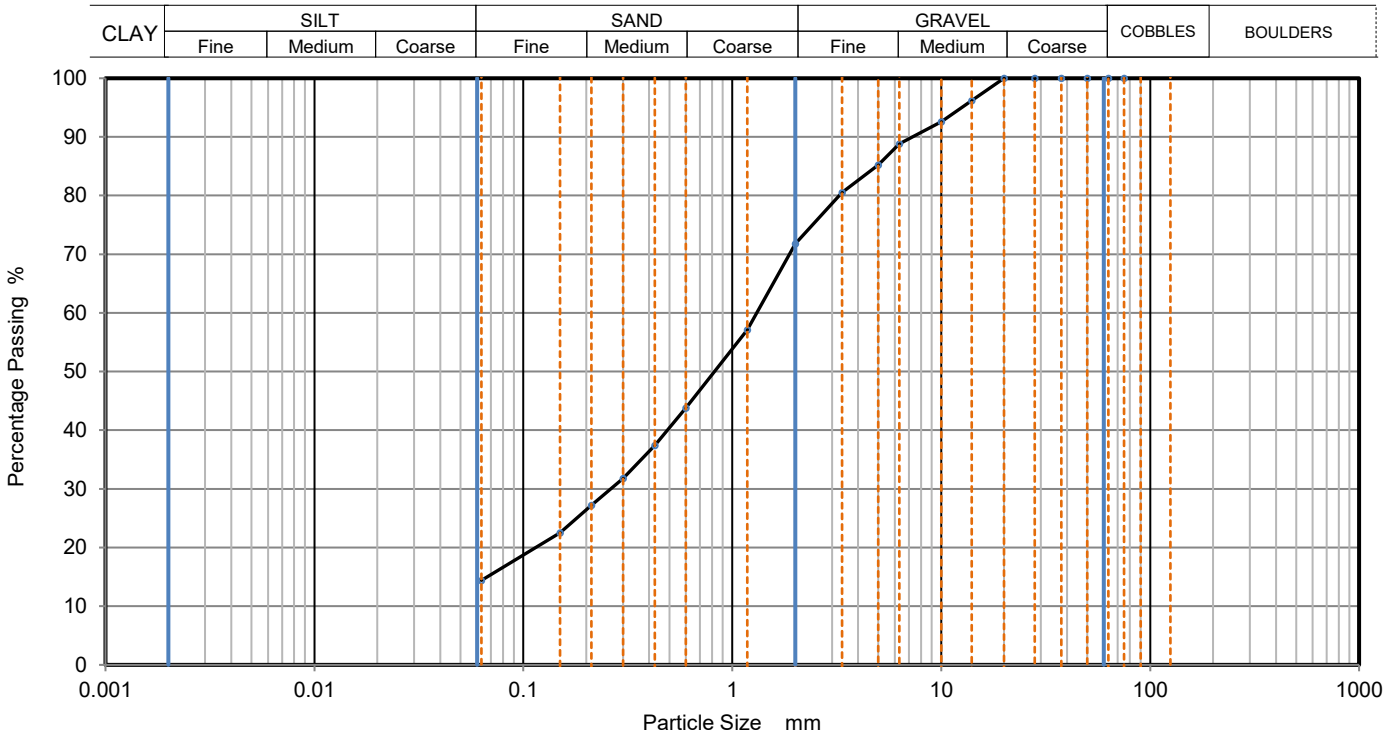
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M17
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown silty very gravelly coarse SAND.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071119



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	96		
10	93		
6.3	89		
5	85		
3.35	81		
2	72		
1.18	57		
0.6	44		
0.425	37		
0.3	32		
0.212	27		
0.15	23		
0.063	14		

Dry Mass of sample, g	769

Sample Proportions	% dry mass
Very coarse	0
Gravel	28
Sand	57
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	1.31
D30	mm	0.261
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

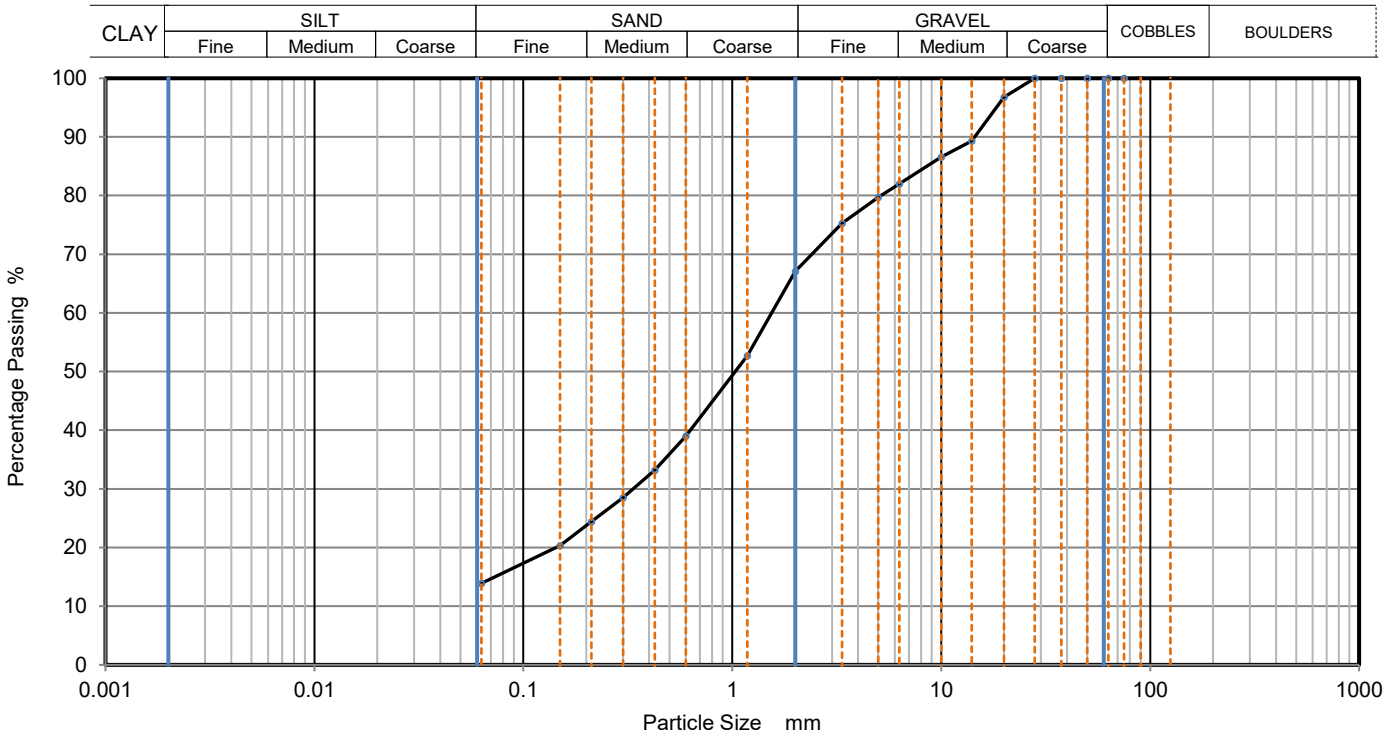
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M17
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Light brown silty very gravelly coarse SAND.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071125



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	89		
10	87		
6.3	82		
5	80		
3.35	75		
2	67		
1.18	53		
0.6	39		
0.425	33		
0.3	29		
0.212	24		
0.15	20		
0.063	14		

Dry Mass of sample, g	781

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	53
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	1.54
D30	mm	0.335
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

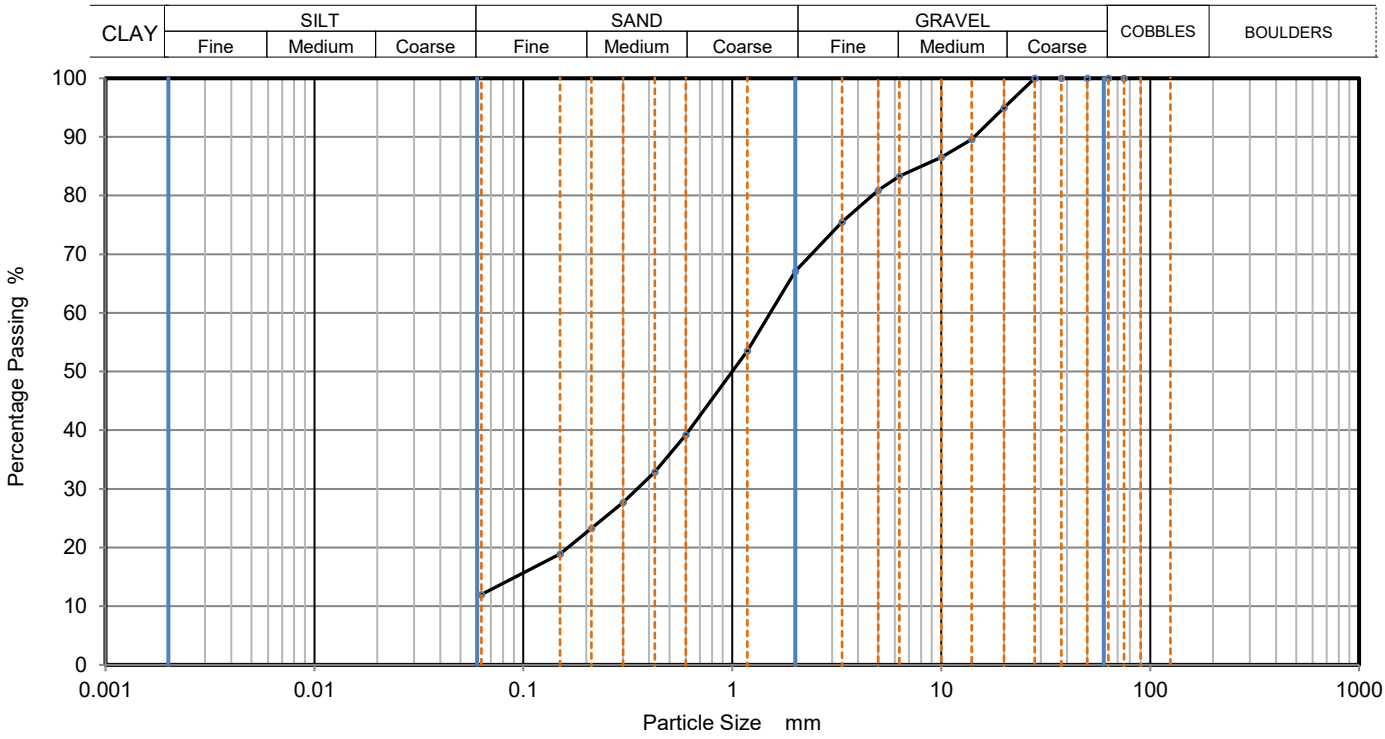
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M17
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Light brown silty very gravelly coarse SAND.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071128



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	95		
14	90		
10	87		
6.3	83		
5	81		
3.35	76		
2	67		
1.18	54		
0.6	39		
0.425	33		
0.3	28		
0.212	23		
0.15	19		
0.063	12		

Dry Mass of sample, g	753

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	55
Fines <0.063mm	12

Grading Analysis		
D100	mm	
D60	mm	1.52
D30	mm	0.35
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

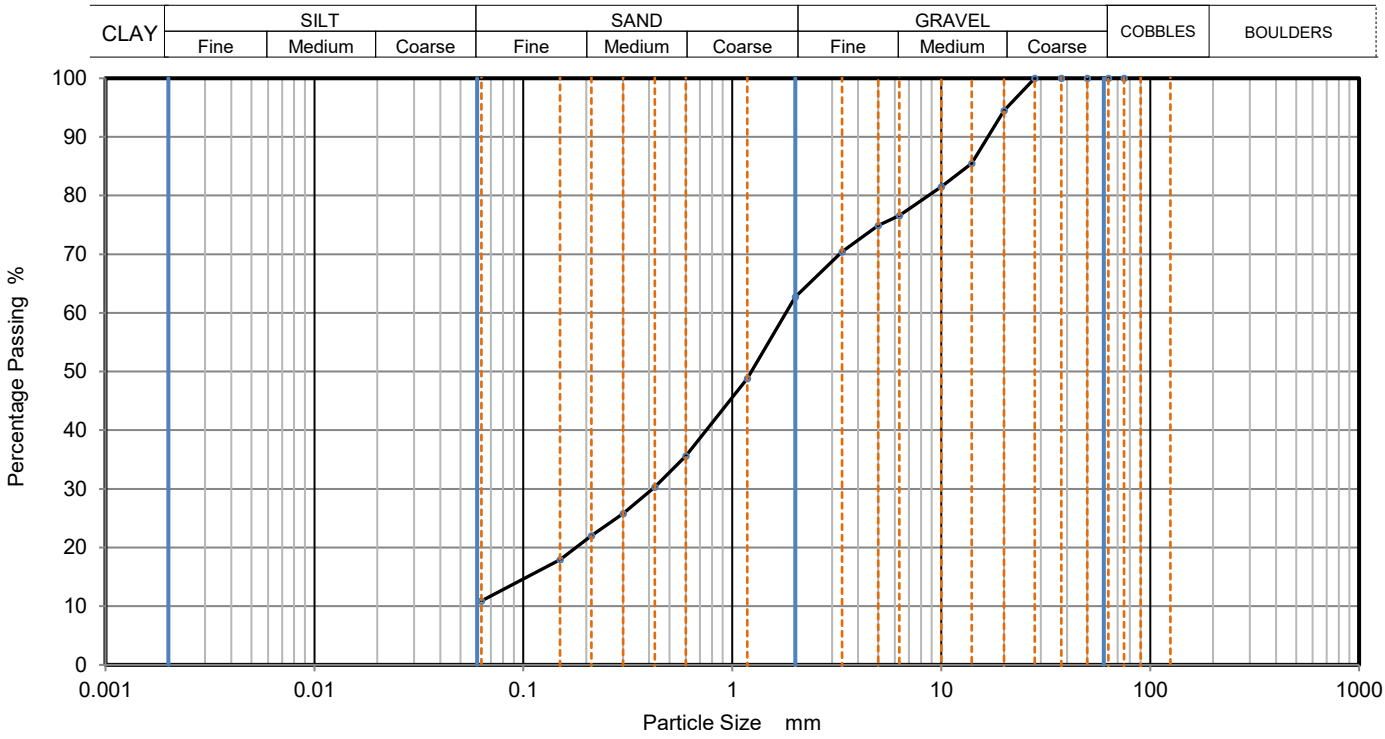
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M17
Site Name	Lot 1, Lough Talt			Sample No.	19
Soil Description	Light brown silty very gravelly coarse SAND.			Depth, m	6.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071134



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	95		
14	86		
10	82		
6.3	77		
5	75		
3.35	70		
2	63		
1.18	49		
0.6	36		
0.425	30		
0.3	26		
0.212	22		
0.15	18		
0.063	11		

Dry Mass of sample, g	765

Sample Proportions	% dry mass
Very coarse	0
Gravel	37
Sand	52
Fines <0.063mm	11

Grading Analysis		
D100	mm	
D60	mm	1.8
D30	mm	0.416
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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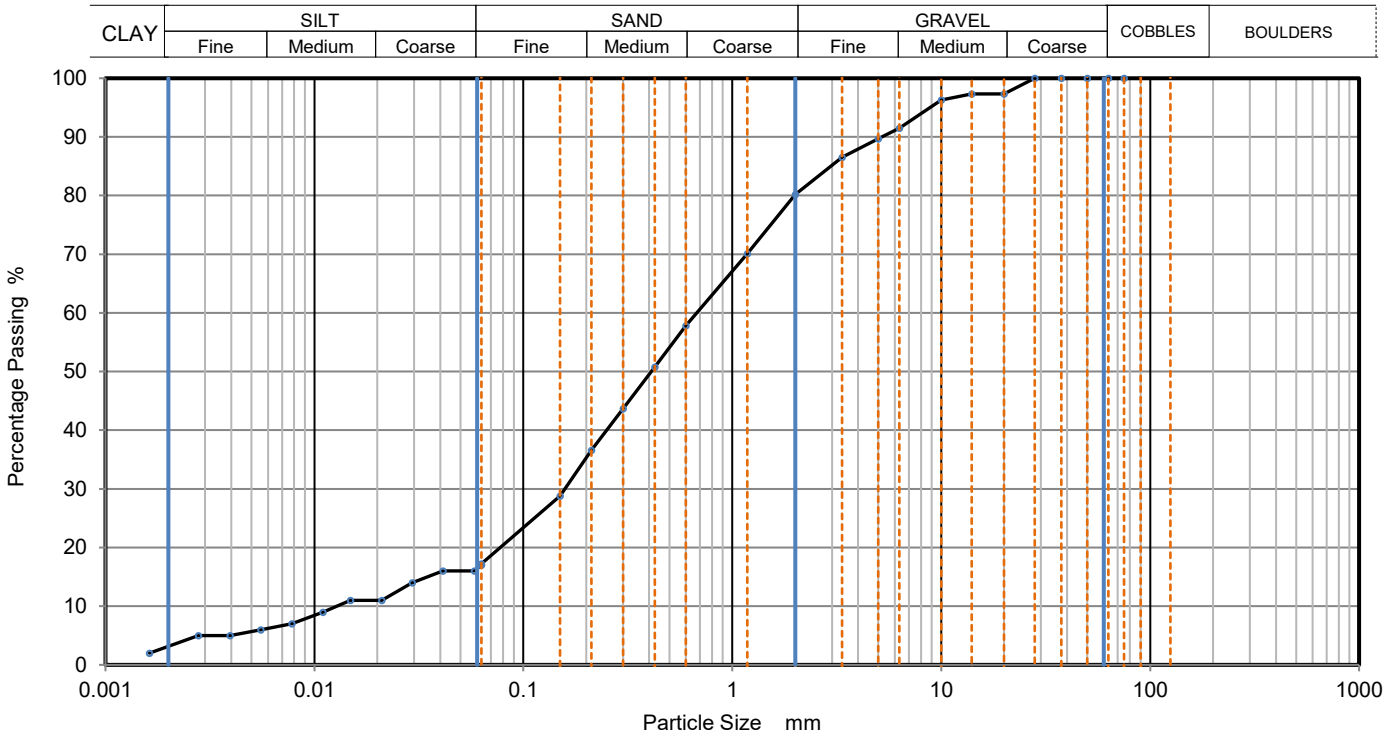
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M17A
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty very gravelly SAND.			Depth, m	0.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071137



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	17
		0.0582	16
75	100	0.0411	16
63	100	0.0294	14
50	100	0.0210	11
37.5	100	0.0149	11
28	100	0.0110	9
20	97	0.0078	7
14	97	0.0055	6
10	96	0.0039	5
6.3	92	0.0028	5
5	90	0.0016	2
3.35	87		
2	80		
1.18	70		
0.6	58	Particle density (assumed)	
0.425	51	2.65 Mg/m3	
0.3	44		
0.212	37		
0.15	29		
0.063	17		

Dry Mass of sample, g	674

Sample Proportions	% dry mass
Very coarse	0
Gravel	20
Sand	63
Silt	14
Clay	3

Grading Analysis		
D100	mm	
D60	mm	0.679
D30	mm	0.158
D10	mm	0.013
Uniformity Coefficient		52
Curvature Coefficient		2.8

Remarks

Preparation and testing in accordance with BS1377 unless noted below

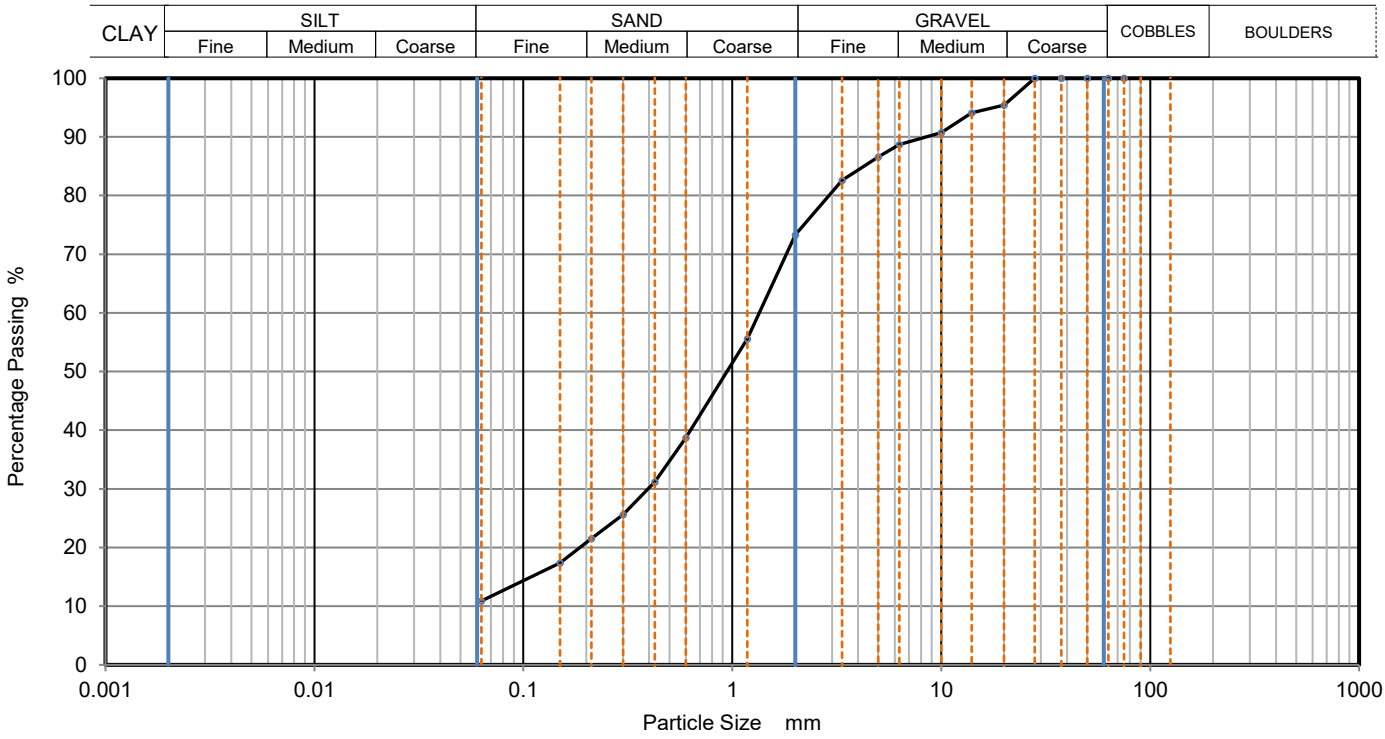
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M17A
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown silty very gravelly coarse SAND.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071140



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	95		
14	94		
10	91		
6.3	89		
5	87		
3.35	83		
2	73		
1.18	56		
0.6	39		
0.425	31		
0.3	26		
0.212	22		
0.15	17		
0.063	11		

Dry Mass of sample, g	716

Sample Proportions	% dry mass
Very coarse	0
Gravel	27
Sand	62
Fines <0.063mm	11

Grading Analysis		
D100	mm	
D60	mm	1.35
D30	mm	0.395
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

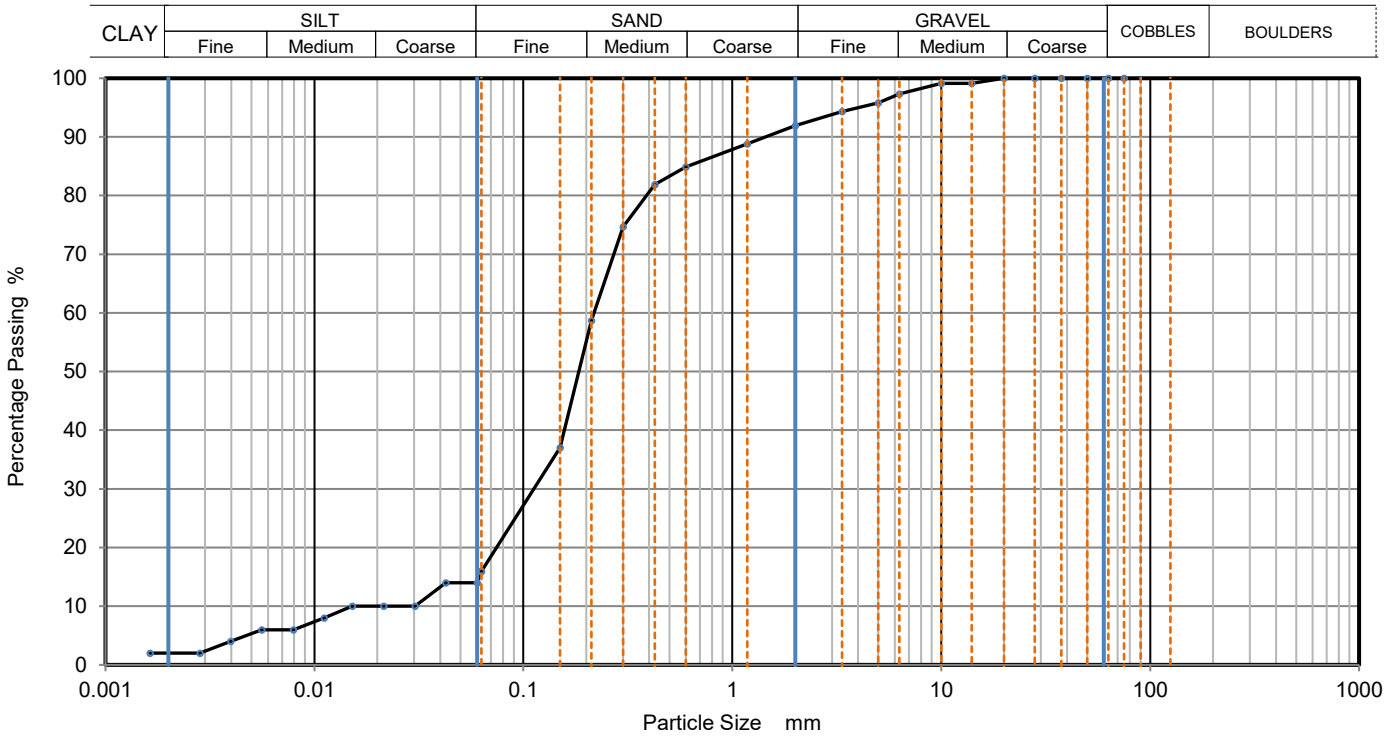
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M17A
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Light brown gravelly silty fine SAND.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071146



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	16
		0.0601	14
75	100	0.0425	14
63	100	0.0304	10
50	100	0.0215	10
37.5	100	0.0152	10
28	100	0.0111	8
20	100	0.0079	6
14	99	0.0056	6
10	99	0.0040	4
6.3	97	0.0028	2
5	96	0.0016	2
3.35	94		
2	92		
1.18	89		
0.6	85	Particle density (assumed)	
0.425	82	2.65	Mg/m3
0.3	75		
0.212	59		
0.15	37		
0.063	16		

Dry Mass of sample, g	734

Sample Proportions	% dry mass
Very coarse	0
Gravel	8
Sand	76
Silt	14
Clay	2

Grading Analysis		
D100	mm	
D60	mm	0.218
D30	mm	0.112
D10	mm	0.0305
Uniformity Coefficient		7.1
Curvature Coefficient		1.9

Remarks

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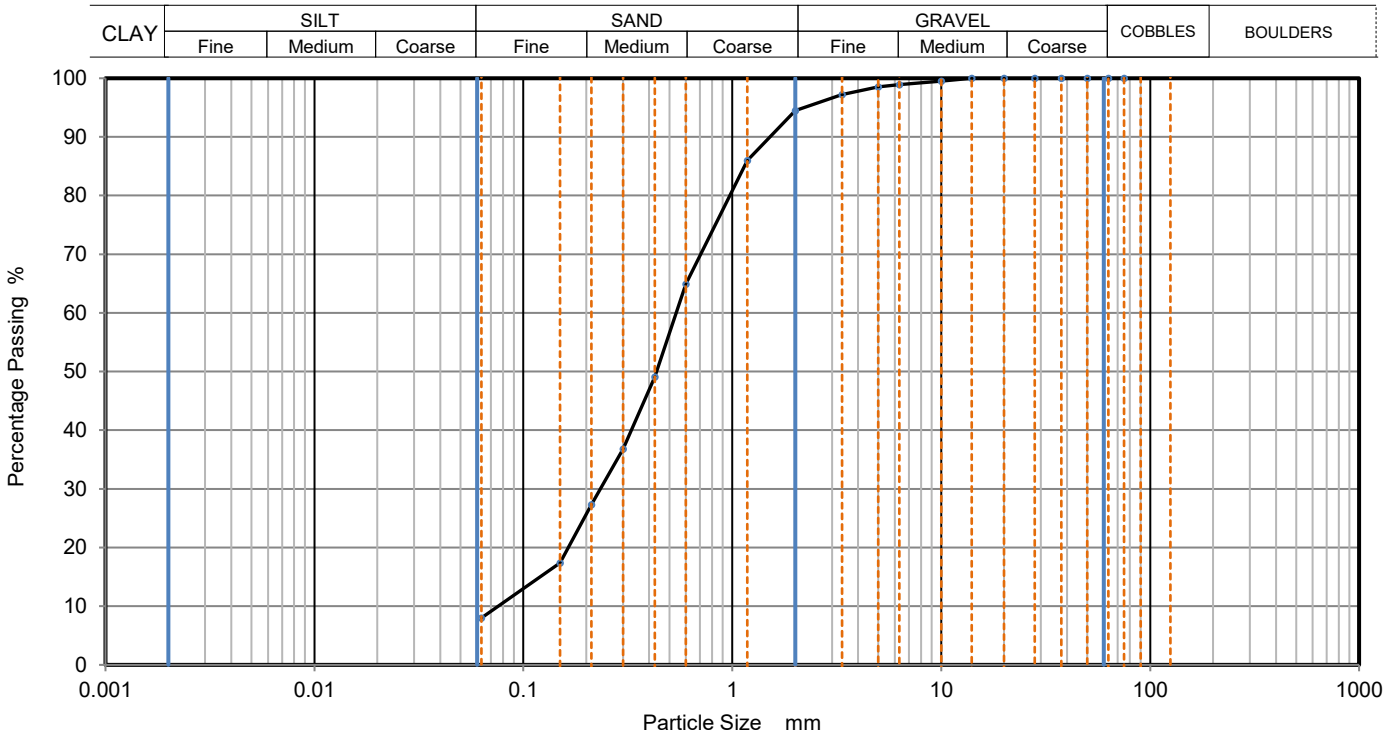
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				QC From No:R2

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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M17A
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Light brown gravelly silty medium SAND.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071149



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	99		
3.35	97		
2	95		
1.18	86		
0.6	65		
0.425	49		
0.3	37		
0.212	27		
0.15	17		
0.063	8		

Dry Mass of sample, g	742

Sample Proportions	% dry mass
Very coarse	0
Gravel	6
Sand	86
Fines <0.063mm	8

Grading Analysis		
D100	mm	
D60	mm	0.539
D30	mm	0.234
D10	mm	0.0756
Uniformity Coefficient		7.1
Curvature Coefficient		1.3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

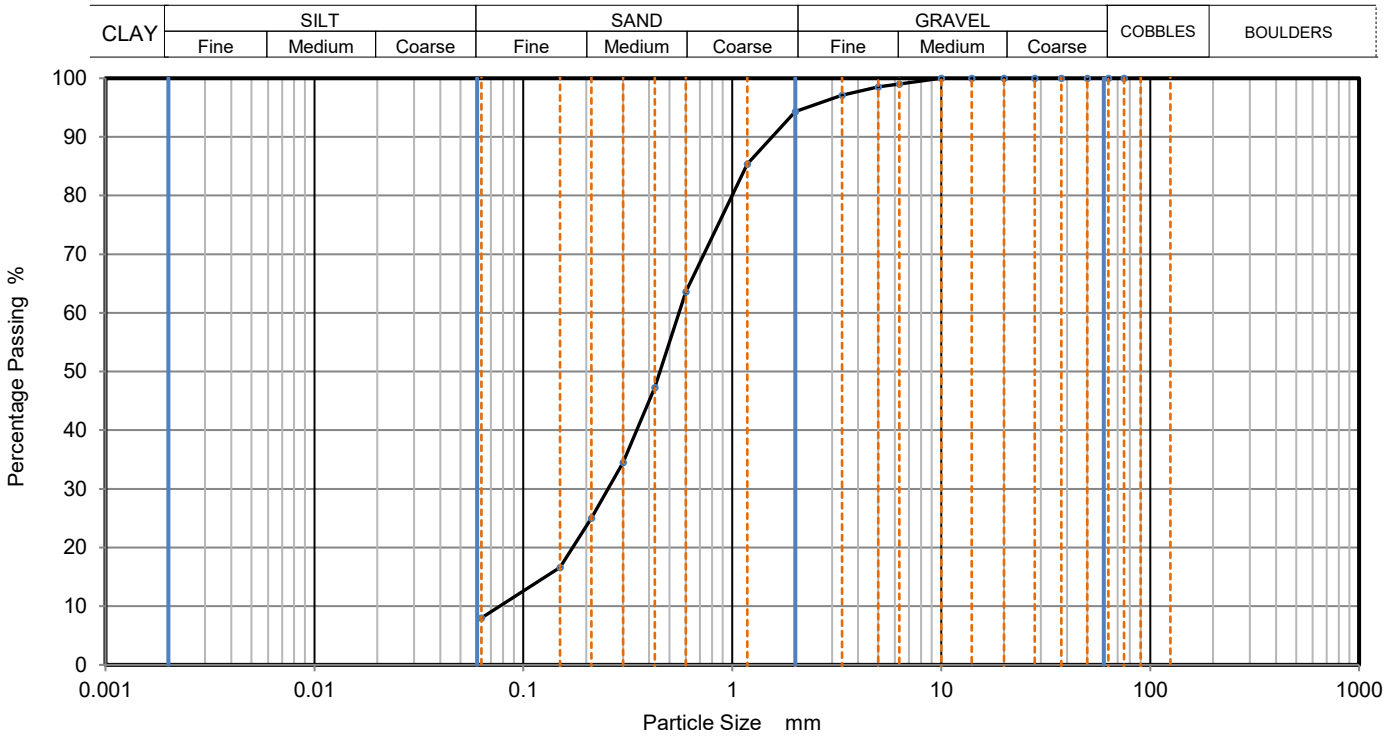
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M17A
Site Name	Lot 1, Lough Talt			Sample No.	19
Soil Description	Light brown gravelly silty medium and coarse SAND.			Depth, m	6.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071155



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	99		
3.35	97		
2	94		
1.18	85		
0.6	64		
0.425	47		
0.3	35		
0.212	25		
0.15	17		
0.063	8		

Dry Mass of sample, g: 730

Sample Proportions	% dry mass
Very coarse	0
Gravel	6
Sand	86
Fines <0.063mm	8

Grading Analysis		
D100	mm	
D60	mm	0.556
D30	mm	0.254
D10	mm	0.0772
Uniformity Coefficient		7.2
Curvature Coefficient		1.5

Remarks

Preparation and testing in accordance with BS1377 unless noted below

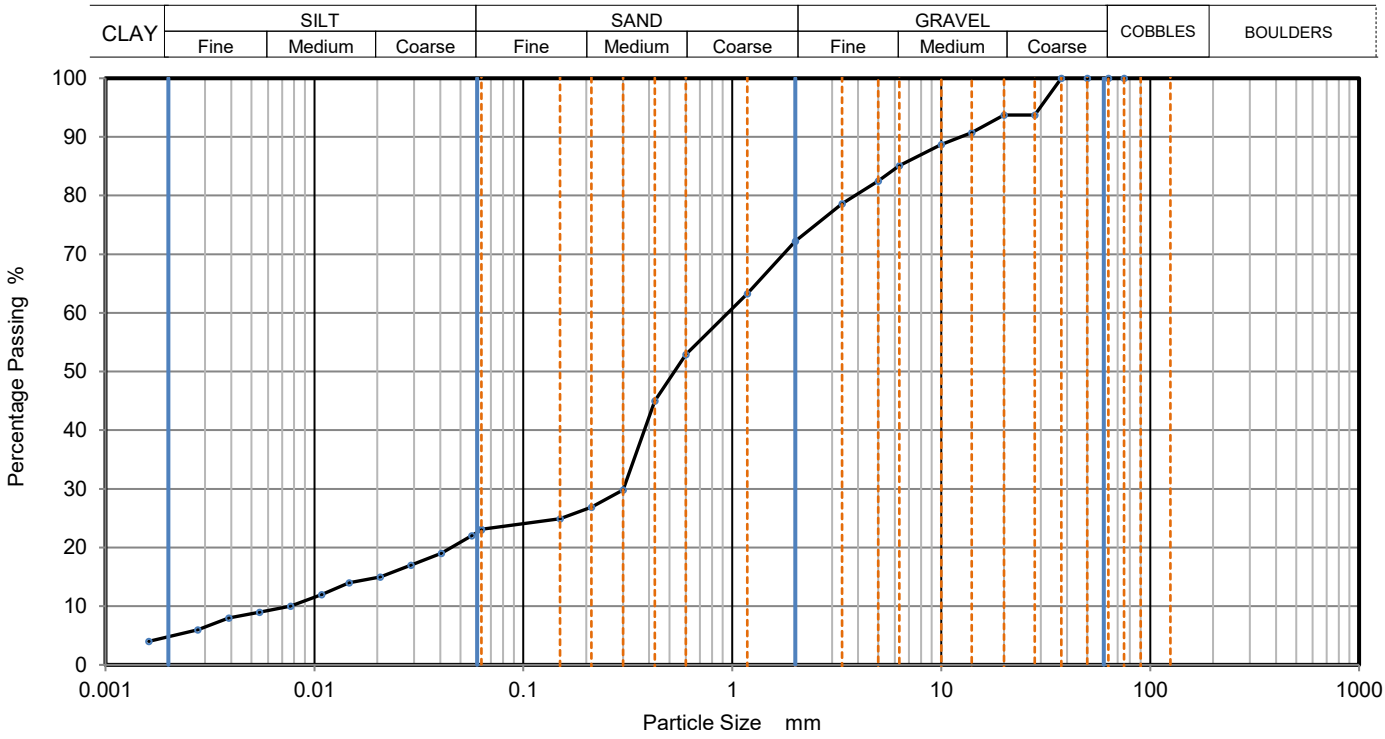
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M20
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Grey very silty very gravelly medium and coarse SAND.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042381



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	23
		0.0566	22
75	100	0.0405	19
63	100	0.0290	17
50	100	0.0206	15
37.5	100	0.0147	14
28	94	0.0108	12
20	94	0.0077	10
14	91	0.0055	9
10	89	0.0039	8
6.3	85	0.0028	6
5	83	0.0016	4
3.35	79		
2	72		
1.18	63		
0.6	53	Particle density (assumed)	
0.425	45	2.65	Mg/m3
0.3	30		
0.212	27		
0.15	25		
0.063	23		

Dry Mass of sample, g: 778

Sample Proportions	% dry mass
Very coarse	0
Gravel	28
Sand	49
Silt	18
Clay	5

Grading Analysis		
D100	mm	
D60	mm	0.952
D30	mm	0.301
D10	mm	0.00716
Uniformity Coefficient		130
Curvature Coefficient		13

Remarks

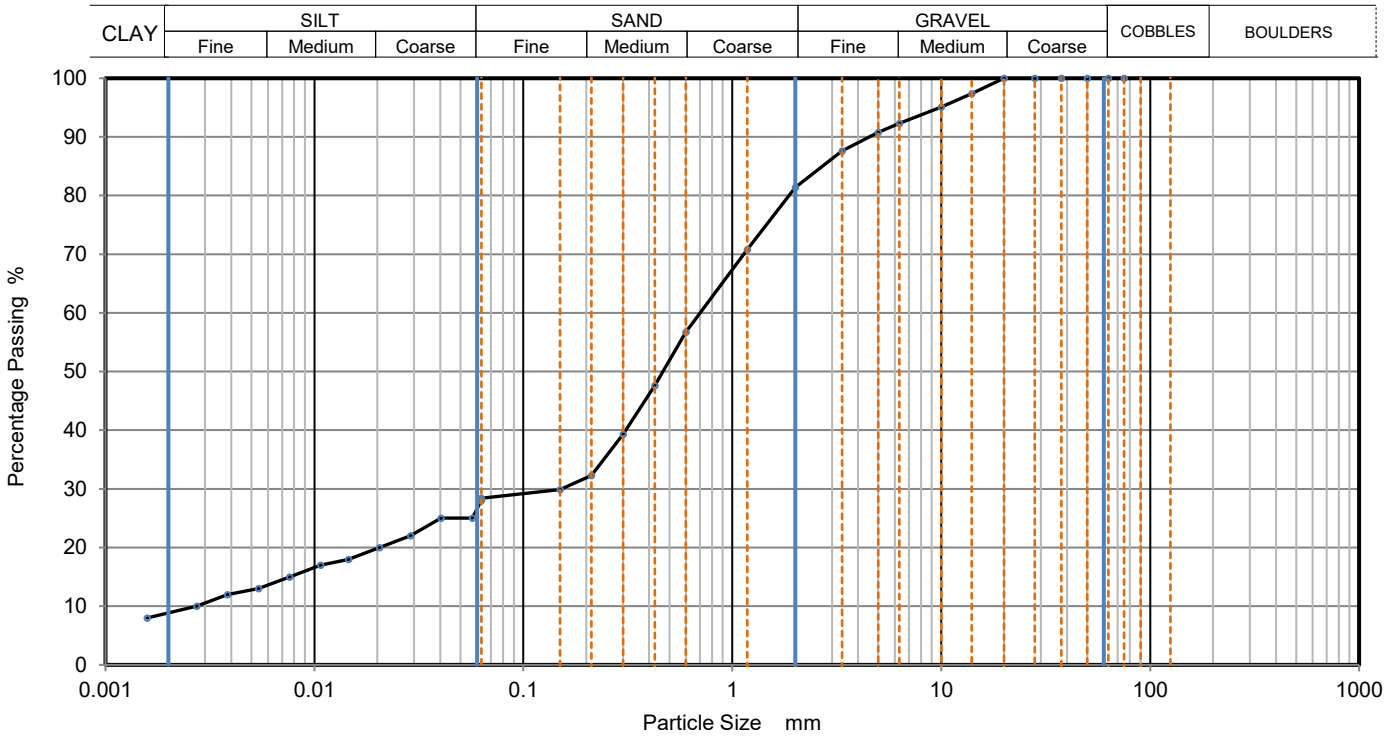
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	PARTICLE SIZE DISTRIBUTION			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M20
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Grey gravelly very silty medium and coarse SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042384



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	28
		0.0570	25
75	100	0.0403	25
63	100	0.0288	22
50	100	0.0205	20
37.5	100	0.0146	18
28	100	0.0107	17
20	100	0.0076	15
14	97	0.0054	13
10	95	0.0038	12
6.3	92	0.0027	10
5	91	0.0016	8
3.35	88		
2	81		
1.18	71		
0.6	57	Particle density (assumed)	
0.425	48	2.65 Mg/m3	
0.3	39		
0.212	32		
0.15	30		
0.063	28		

Dry Mass of sample, g	775

Sample Proportions	% dry mass
Very coarse	0
Gravel	19
Sand	53
Silt	19
Clay	9

Grading Analysis		
D100	mm	
D60	mm	0.702
D30	mm	0.152
D10	mm	0.00271
Uniformity Coefficient		260
Curvature Coefficient		12

Remarks

Preparation and testing in accordance with BS1377 unless noted below

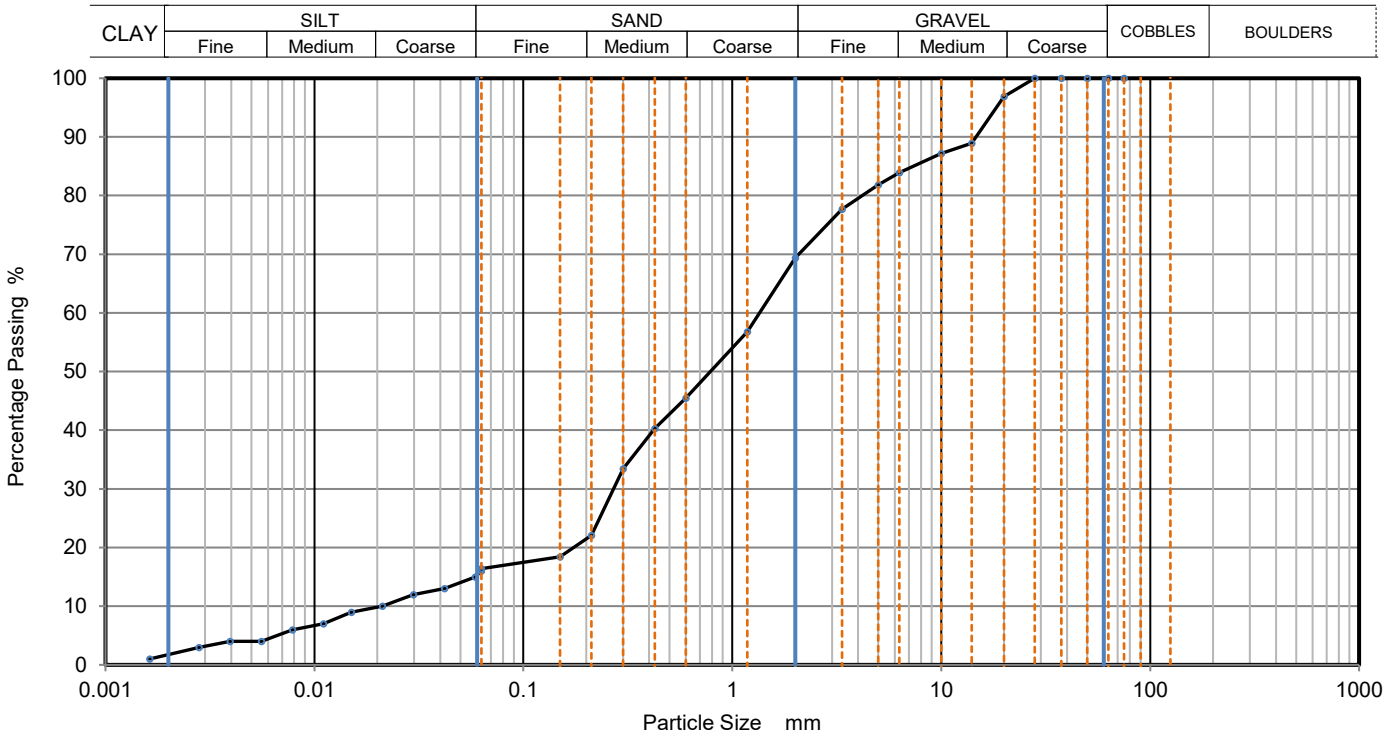
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M20
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Greyish-brown silty very gravelly medium and coarse SAND.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042387



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	16
		0.0589	15
75	100	0.0419	13
63	100	0.0298	12
50	100	0.0212	10
37.5	100	0.0150	9
28	100	0.0110	7
20	97	0.0079	6
14	89	0.0056	4
10	87	0.0039	4
6.3	84	0.0028	3
5	82	0.0016	1
3.35	78		
2	69		
1.18	57		
0.6	46	Particle density (assumed)	
0.425	40	2.65	Mg/m3
0.3	33		
0.212	22		
0.15	18		
0.063	16		

Dry Mass of sample, g	836

Sample Proportions	% dry mass
Very coarse	0
Gravel	31
Sand	53
Silt	14
Clay	2

Grading Analysis		
D100	mm	
D60	mm	1.35
D30	mm	0.27
D10	mm	0.0192
Uniformity Coefficient		70
Curvature Coefficient		2.8

Remarks

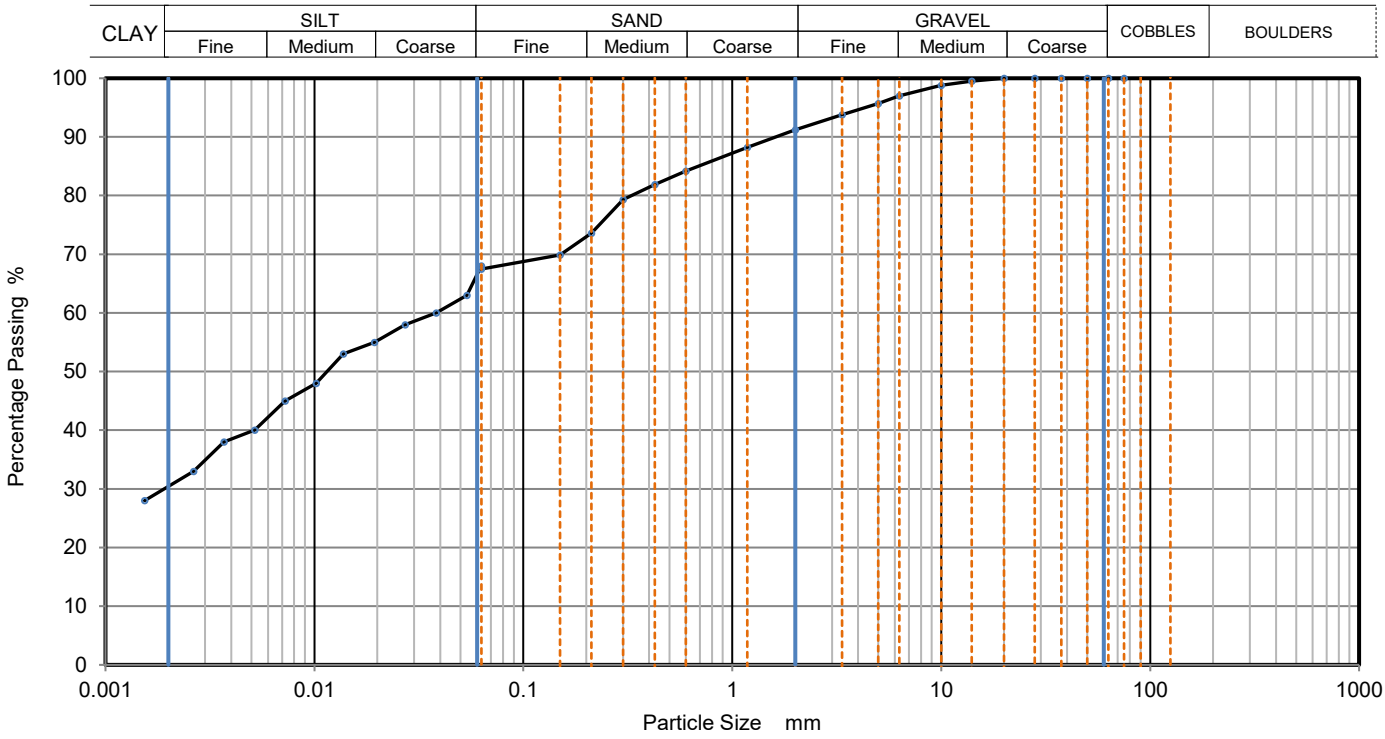
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M20
Site Name	Lot 1, Lough Talt			Sample No.	16
Soil Description	Light brown slightly gravelly slightly sandy SILT.			Depth, m	5.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042393



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	68
		0.0537	63
75	100	0.0382	60
63	100	0.0272	58
50	100	0.0194	55
37.5	100	0.0138	53
28	100	0.0102	48
20	100	0.0072	45
14	100	0.0052	40
10	99	0.0037	38
6.3	97	0.0026	33
5	96	0.0015	28
3.35	94		
2	91		
1.18	88		
0.6	84	Particle density (assumed)	
0.425	82	2.65	Mg/m3
0.3	79		
0.212	74		
0.15	70		
0.063	68		

Dry Mass of sample, g	711

Sample Proportions	% dry mass
Very coarse	0
Gravel	9
Sand	24
Silt	38
Clay	30

Grading Analysis		
D100	mm	
D60	mm	
D30	mm	0.00201
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

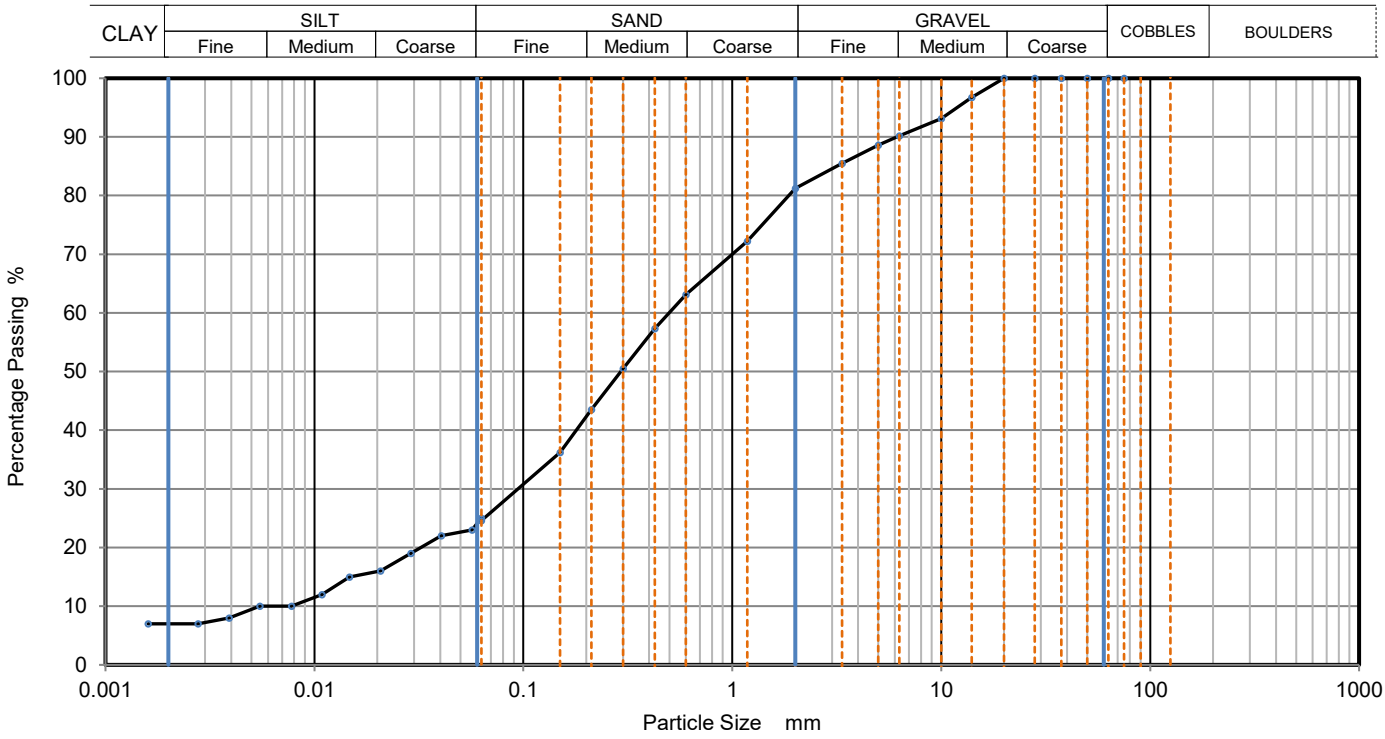
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M20A
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown gravelly very silty SAND.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071161



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	25
		0.0569	23
75	100	0.0404	22
63	100	0.0289	19
50	100	0.0207	16
37.5	100	0.0147	15
28	100	0.0109	12
20	100	0.0078	10
14	97	0.0055	10
10	93	0.0039	8
6.3	90	0.0028	7
5	89	0.0016	7
3.35	86		
2	81		
1.18	72		
0.6	63	Particle density (assumed)	
0.425	57	2.65 Mg/m3	
0.3	51		
0.212	44		
0.15	36		
0.063	25		

Dry Mass of sample, g	682

Sample Proportions	% dry mass
Very coarse	0
Gravel	19
Sand	57
Silt	18
Clay	7

Grading Analysis		
D100	mm	
D60	mm	0.498
D30	mm	0.0943
D10	mm	0.00818
Uniformity Coefficient		61
Curvature Coefficient		2.2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

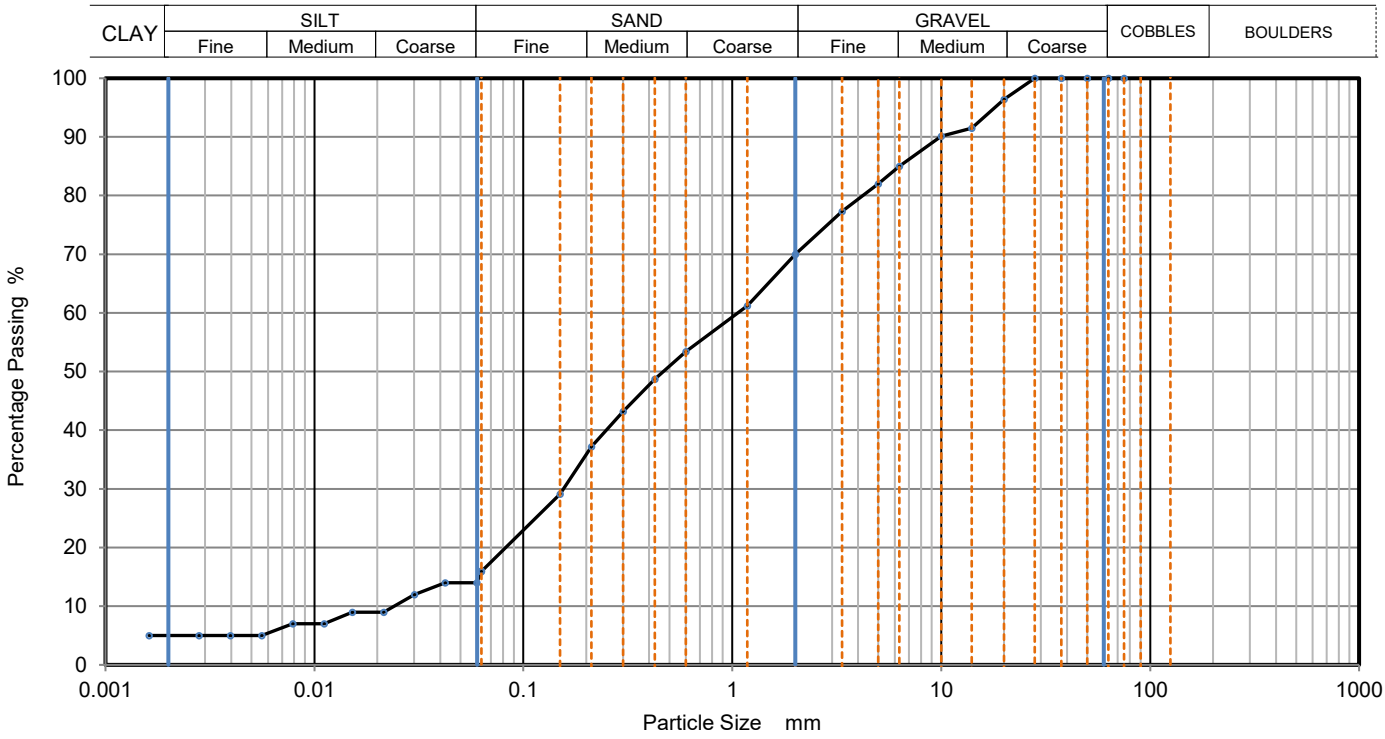
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M20B
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown silty very gravelly SAND.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071167



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	16
		0.0598	14
75	100	0.0423	14
63	100	0.0300	12
50	100	0.0215	9
37.5	100	0.0152	9
28	100	0.0111	7
20	96	0.0079	7
14	92	0.0056	5
10	90	0.0040	5
6.3	85	0.0028	5
5	82	0.0016	5
3.35	77		
2	70		
1.18	61		
0.6	53	Particle density (assumed)	
0.425	49	2.65 Mg/m3	
0.3	43		
0.212	37		
0.15	29		
0.063	16		

Dry Mass of sample, g	760

Sample Proportions	% dry mass
Very coarse	0
Gravel	30
Sand	54
Silt	11
Clay	5

Grading Analysis		
D100	mm	
D60	mm	1.06
D30	mm	0.156
D10	mm	0.024
Uniformity Coefficient		44
Curvature Coefficient		0.96

Remarks

Preparation and testing in accordance with BS1377 unless noted below

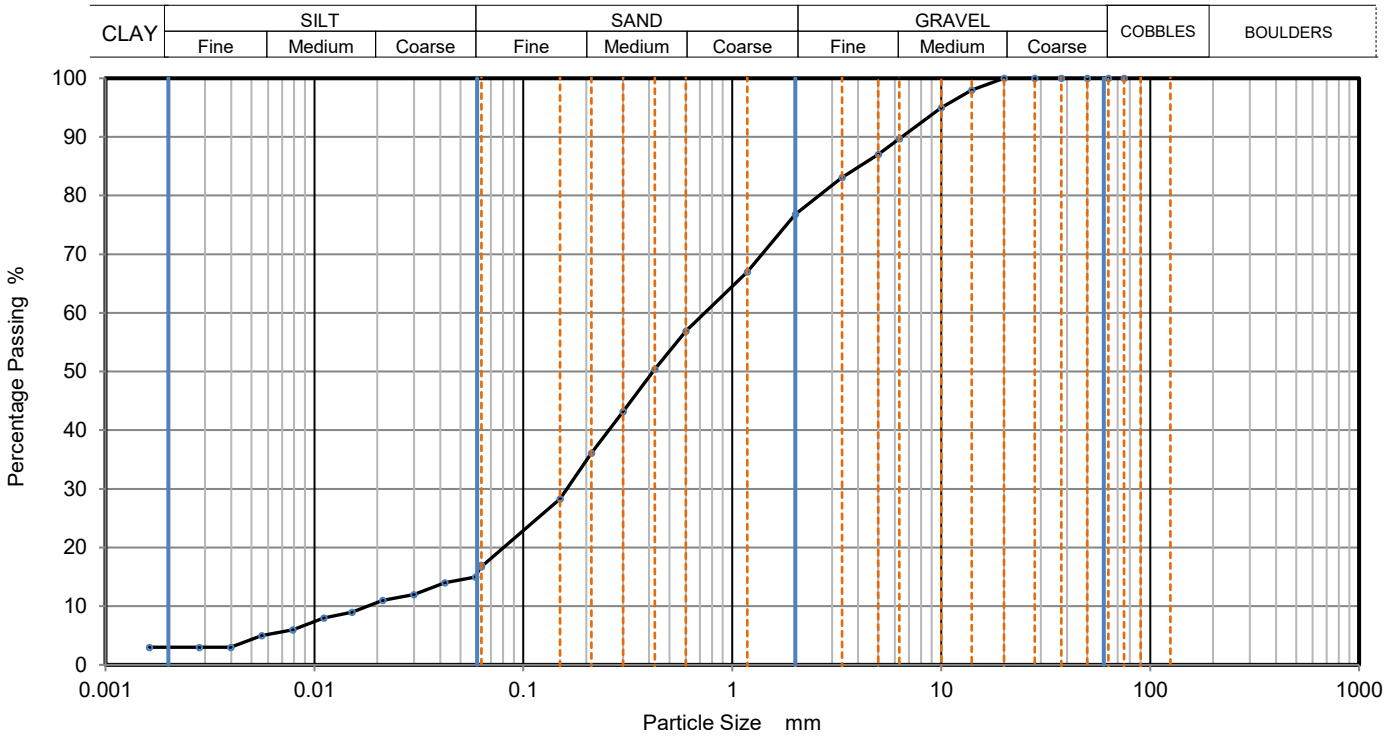
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M20B
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Light brown silty very gravelly SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071170



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	17
		0.0591	15
75	100	0.0420	14
63	100	0.0299	12
50	100	0.0212	11
37.5	100	0.0151	9
28	100	0.0111	8
20	100	0.0079	6
14	98	0.0056	5
10	95	0.0040	3
6.3	90	0.0028	3
5	87	0.0016	3
3.35	83		
2	77		
1.18	67		
0.6	57	Particle density (assumed)	
0.425	50	2.65	Mg/m3
0.3	43		
0.212	36		
0.15	28		
0.063	17		

Dry Mass of sample, g	766

Sample Proportions	% dry mass
Very coarse	0
Gravel	23
Sand	60
Silt	14
Clay	3

Grading Analysis		
D100	mm	
D60	mm	0.738
D30	mm	0.162
D10	mm	0.0185
Uniformity Coefficient		40
Curvature Coefficient		1.9

Remarks

Preparation and testing in accordance with BS1377 unless noted below

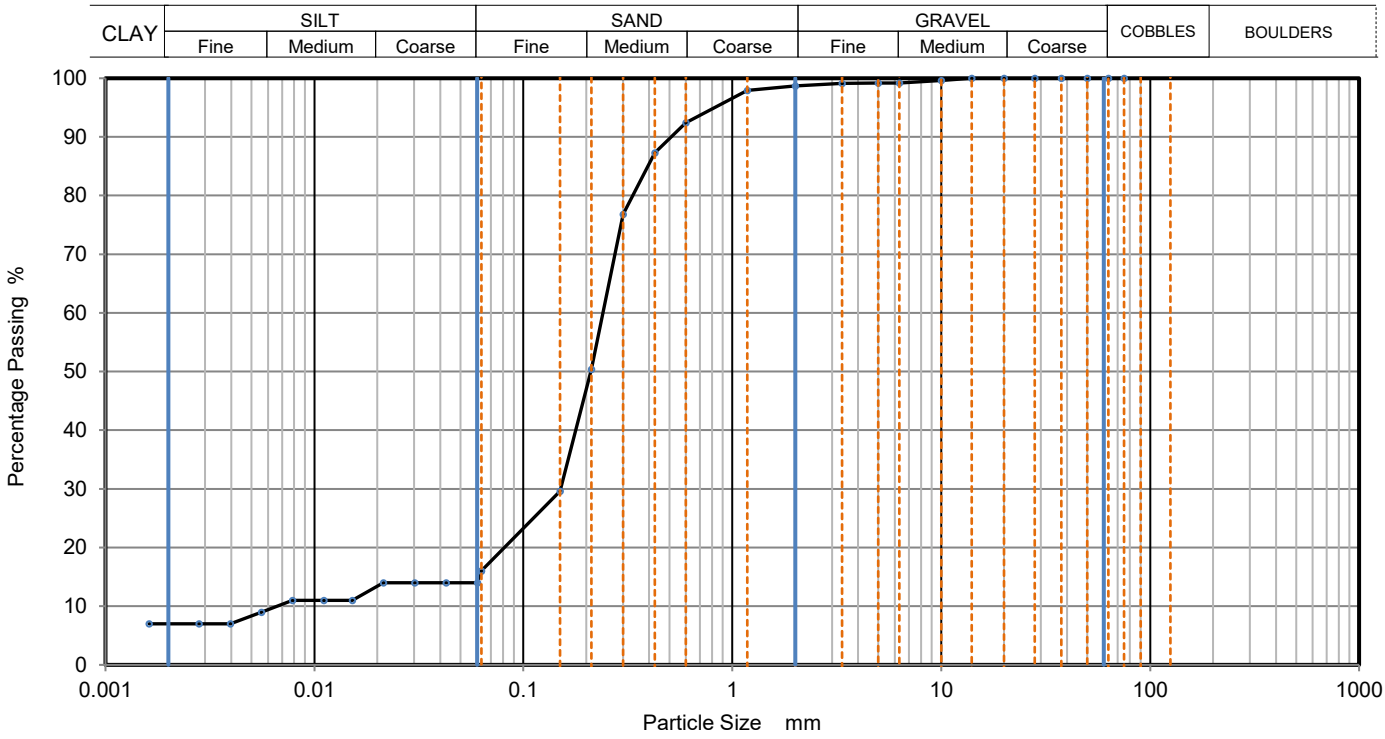
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M20B
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Light brown silty fine and medium SAND.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071176



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	16
		0.0604	14
75	100	0.0427	14
63	100	0.0302	14
50	100	0.0214	14
37.5	100	0.0152	11
28	100	0.0111	11
20	100	0.0078	11
14	100	0.0056	9
10	100	0.0040	7
6.3	99	0.0028	7
5	99	0.0016	7
3.35	99		
2	99		
1.18	98		
0.6	92	Particle density (assumed)	
0.425	87	2.65 Mg/m3	
0.3	77		
0.212	50		
0.15	30		
0.063	16		

Dry Mass of sample, g: 767

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	83
Silt	9
Clay	7

Grading Analysis		
D100	mm	
D60	mm	0.241
D30	mm	0.151
D10	mm	0.00633
Uniformity Coefficient		38
Curvature Coefficient		15

Remarks

Preparation and testing in accordance with BS1377 unless noted below

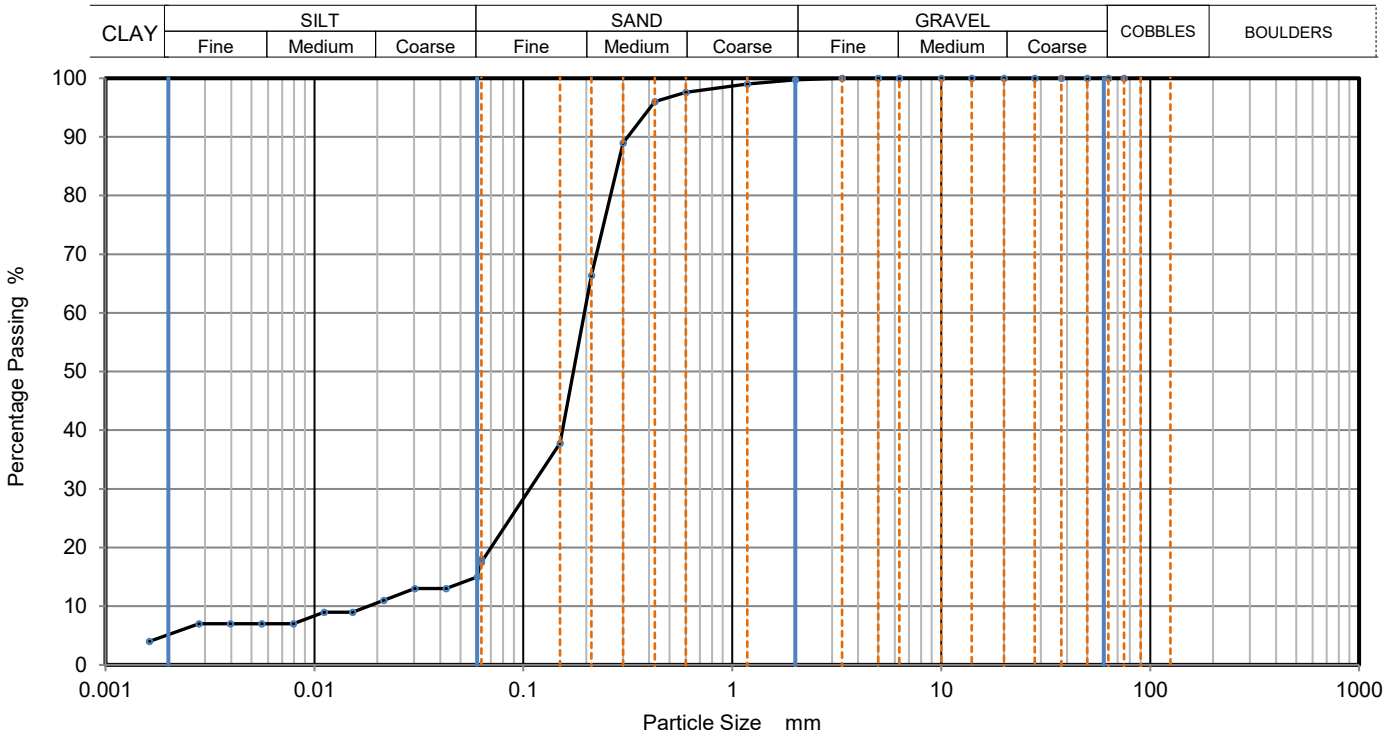
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M20B
Site Name	Lot 1, Lough Talt			Sample No.	16
Soil Description	Light brown silty fine and medium SAND.			Depth, m	5.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071179



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	18
		0.0601	15
75	100	0.0427	13
63	100	0.0302	13
50	100	0.0215	11
37.5	100	0.0153	9
28	100	0.0111	9
20	100	0.0079	7
14	100	0.0056	7
10	100	0.0040	7
6.3	100	0.0028	7
5	100	0.0016	4
3.35	100		
2	100		
1.18	99		
0.6	98	Particle density (assumed)	
0.425	96	2.65 Mg/m3	
0.3	89		
0.212	66		
0.15	38		
0.063	18		

Dry Mass of sample, g	721

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	82
Silt	12
Clay	5

Grading Analysis		
D100	mm	
D60	mm	0.196
D30	mm	0.108
D10	mm	0.0185
Uniformity Coefficient		11
Curvature Coefficient		3.2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

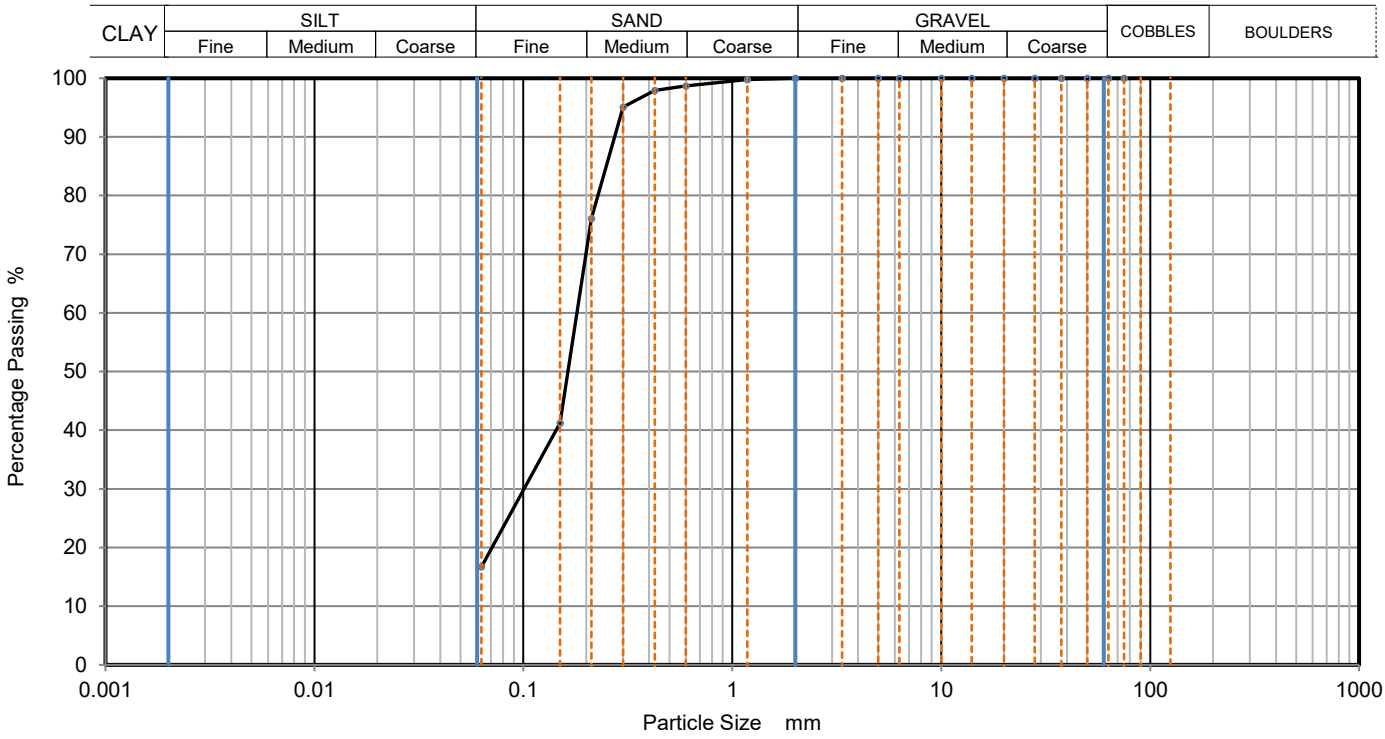
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M20B
Site Name	Lot 1, Lough Talt			Sample No.	19
Soil Description	Light brown silty fine SAND.			Depth, m	6.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071182



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	99		
0.425	98		
0.3	95		
0.212	76		
0.15	41		
0.063	17		

Dry Mass of sample, g	715

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	83
Fines <0.063mm	17

Grading Analysis		
D100	mm	
D60	mm	0.181
D30	mm	0.101
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

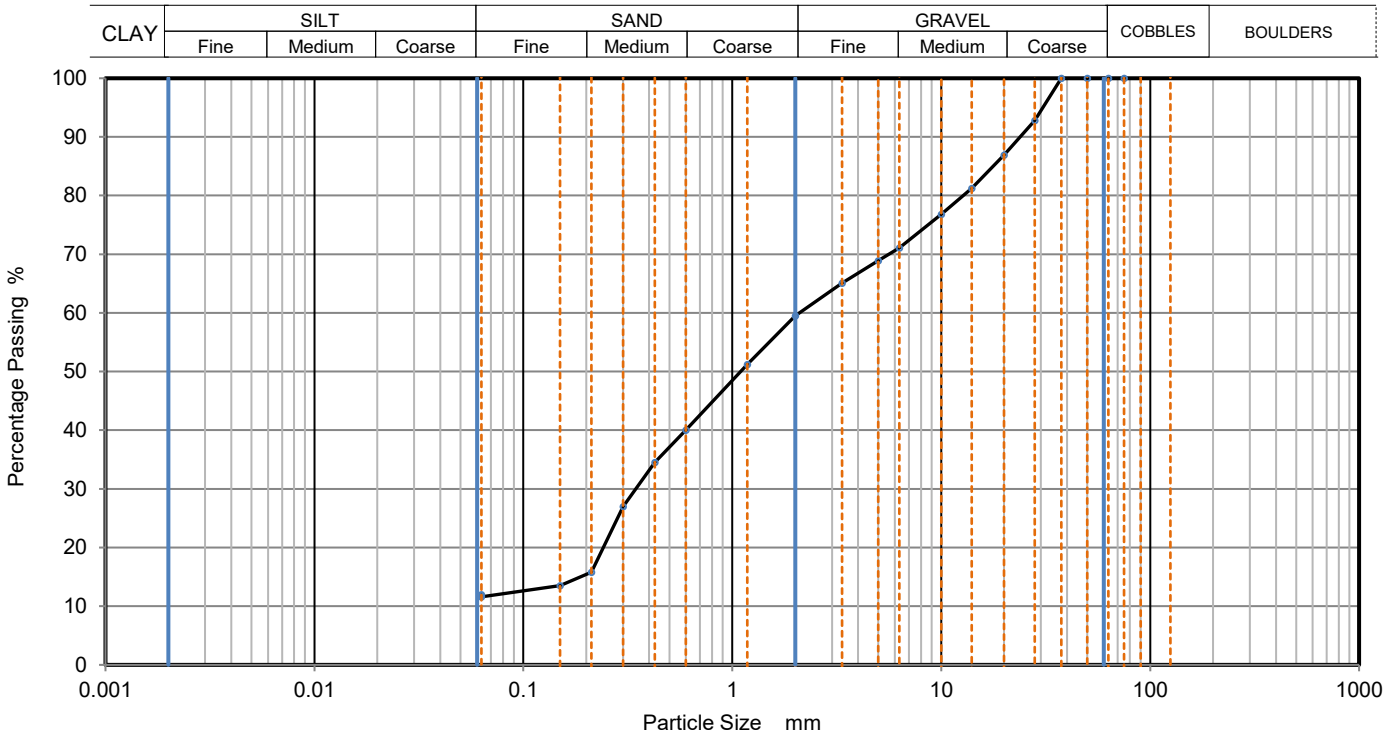
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M22
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark brown silty SAND and GRAVEL. Sand is medium and coarse.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250423102



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	12
75	100		
63	100		
50	100		
37.5	100		
28	93		
20	87		
14	81		
10	77		
6.3	71		
5	69		
3.35	65		
2	60		
1.18	51		
0.6	40	Particle density (assumed)	
0.425	35	2.65	Mg/m3
0.3	27		
0.212	16		
0.15	14		
0.063	12		

Dry Mass of sample, g: 714

Sample Proportions	% dry mass
Very coarse	0
Gravel	41
Sand	48
Fines <0.063mm	12

Grading Analysis		
D100	mm	
D60	mm	2.09
D30	mm	0.345
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

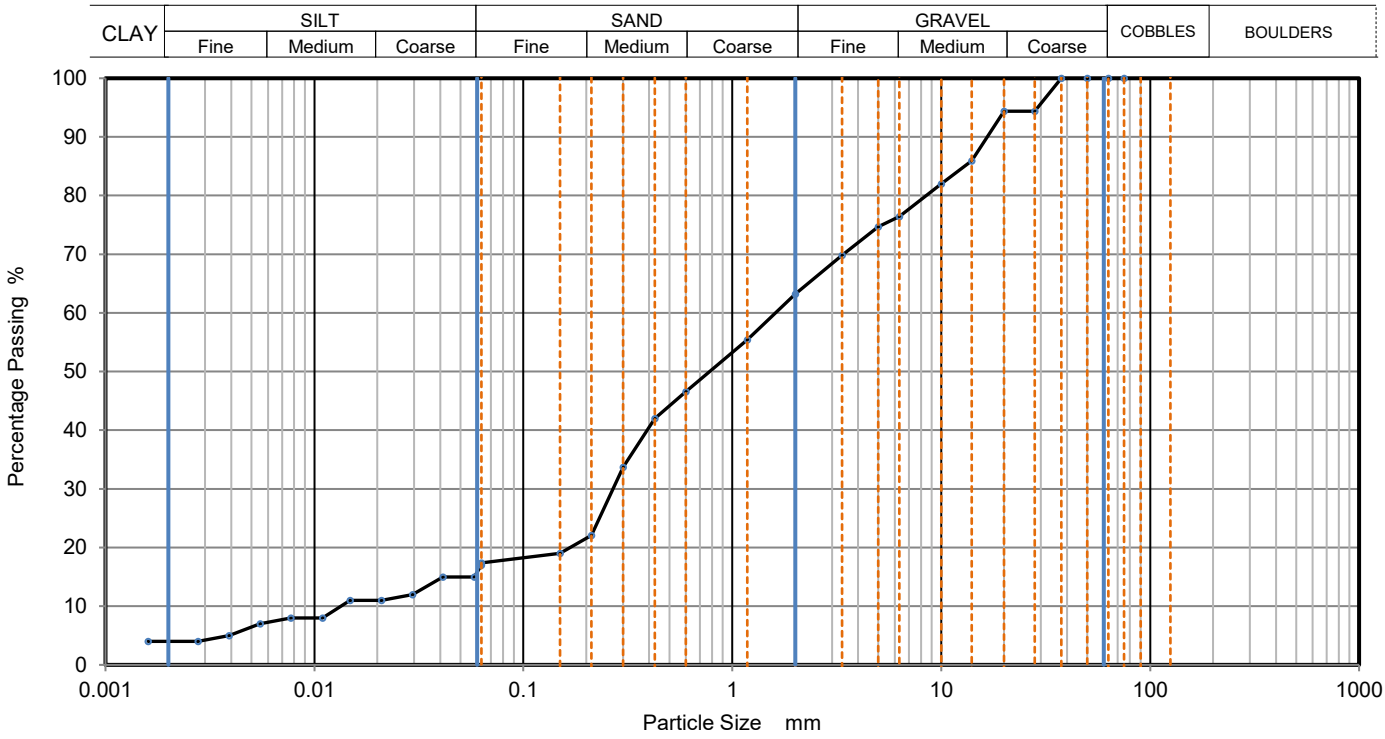
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M22
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Brown silty very gravelly medium SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250423105



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	17
		0.0582	15
75	100	0.0412	15
63	100	0.0294	12
50	100	0.0209	11
37.5	100	0.0148	11
28	94	0.0109	8
20	94	0.0077	8
14	86	0.0055	7
10	82	0.0039	5
6.3	76	0.0028	4
5	75	0.0016	4
3.35	70		
2	63		
1.18	55		
0.6	47	Particle density (assumed)	
0.425	42	2.65 Mg/m3	
0.3	34		
0.212	22		
0.15	19		
0.063	17		

Dry Mass of sample, g: 708

Sample Proportions	% dry mass
Very coarse	0
Gravel	37
Sand	46
Silt	13
Clay	4

Grading Analysis		
D100	mm	
D60	mm	1.61
D30	mm	0.268
D10	mm	0.0137
Uniformity Coefficient		120
Curvature Coefficient		3.3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

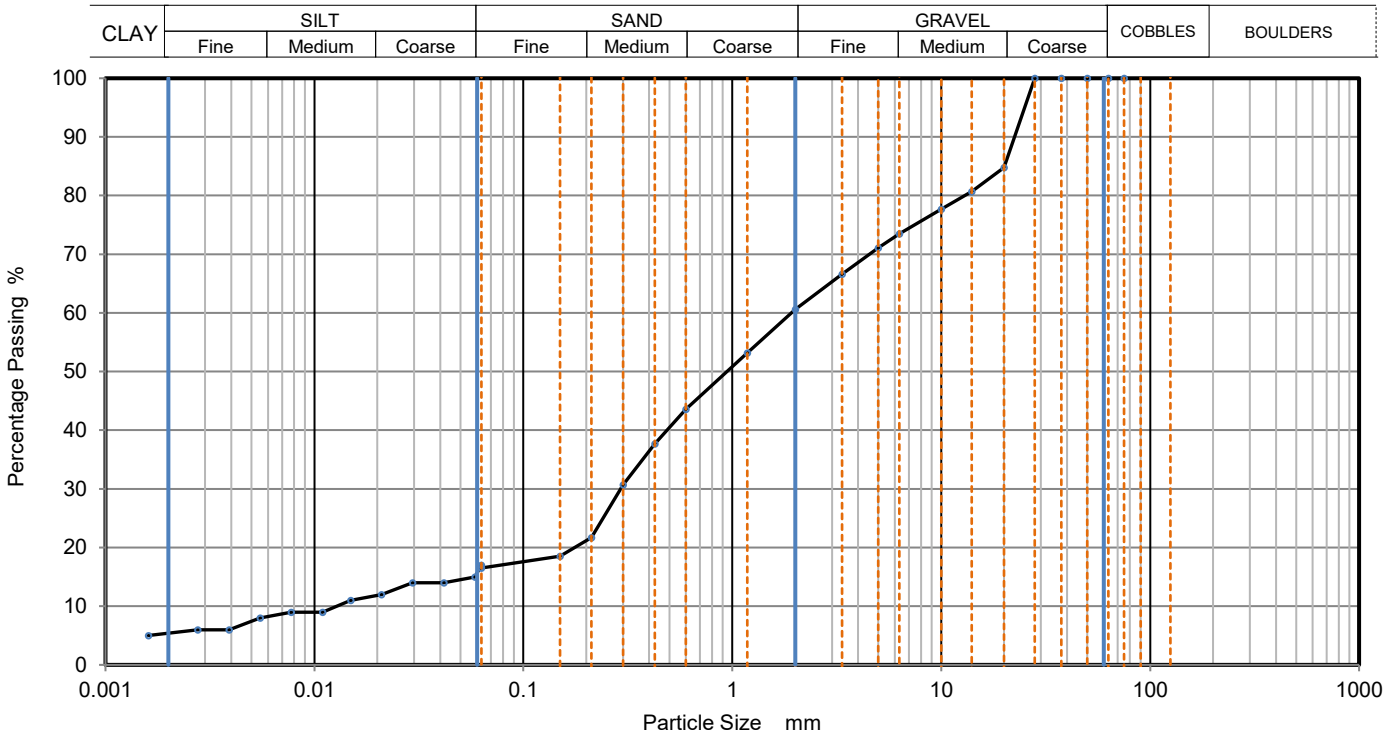
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M22
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Light brown silty SAND and GRAVEL. Sand is medium.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250423111



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	17
		0.0586	15
75	100	0.0417	14
63	100	0.0295	14
50	100	0.0210	12
37.5	100	0.0149	11
28	100	0.0109	9
20	85	0.0077	9
14	81	0.0055	8
10	78	0.0039	6
6.3	74	0.0028	6
5	71	0.0016	5
3.35	67		
2	61		
1.18	53		
0.6	44	Particle density (assumed)	
0.425	38	2.65 Mg/m3	
0.3	31		
0.212	22		
0.15	19		
0.063	17		

Dry Mass of sample, g	747

Sample Proportions	% dry mass
Very coarse	0
Gravel	39
Sand	44
Silt	11
Clay	5

Grading Analysis		
D100	mm	
D60	mm	1.91
D30	mm	0.292
D10	mm	0.0134
Uniformity Coefficient		140
Curvature Coefficient		3.3

Remarks

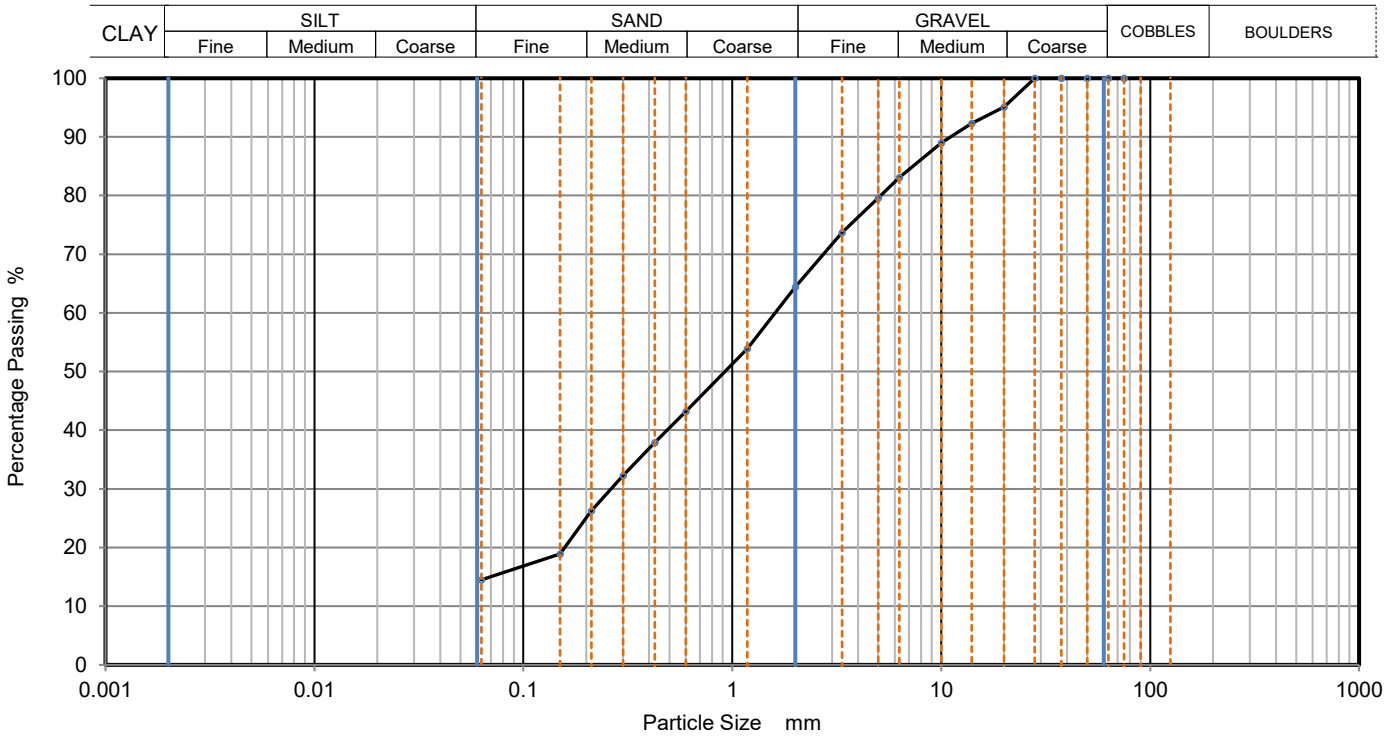
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M23
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown silty very gravelly SAND.			Depth, m	0.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423113



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	95		
14	92		
10	89		
6.3	83		
5	80		
3.35	74		
2	64		
1.18	54		
0.6	43		
0.425	38		
0.3	32		
0.212	26		
0.15	19		
0.063	15		

Dry Mass of sample, g	711

Sample Proportions	% dry mass
Very coarse	0
Gravel	36
Sand	50
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	1.61
D30	mm	0.262
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

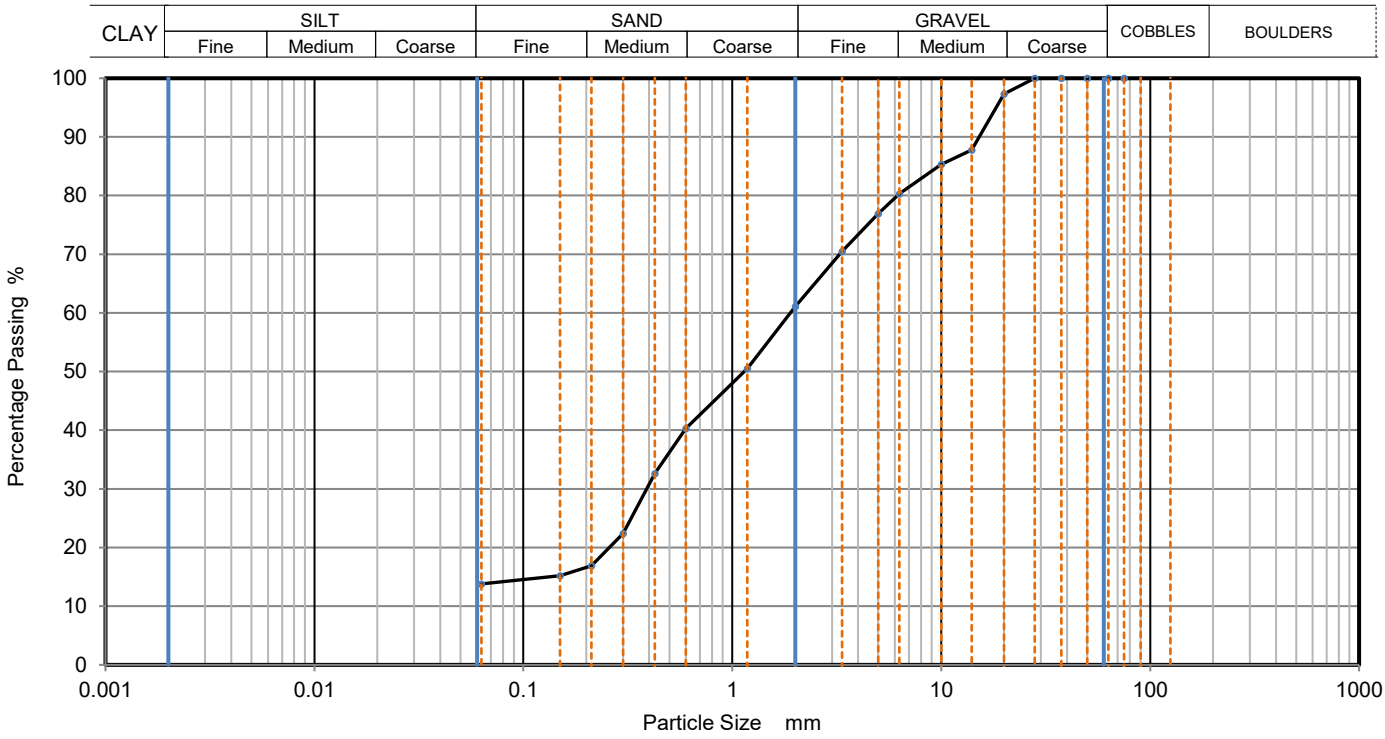
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M23
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown silty very gravelly medium SAND.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423116



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	88		
10	85		
6.3	80		
5	77		
3.35	71		
2	61		
1.18	51		
0.6	40		
0.425	33		
0.3	22		
0.212	17		
0.15	15		
0.063	14		

Dry Mass of sample, g	810

Sample Proportions	% dry mass
Very coarse	0
Gravel	39
Sand	47
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	1.89
D30	mm	0.389
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

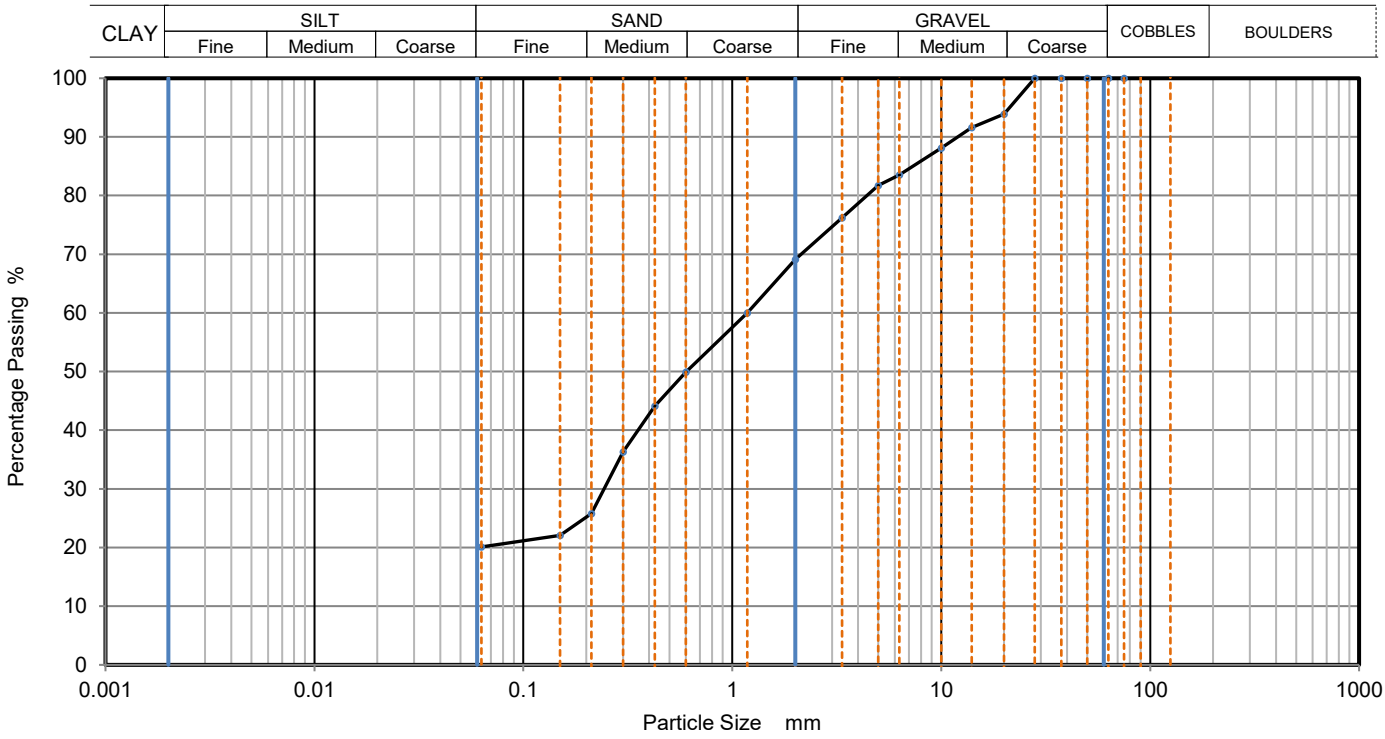
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M23
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Light brown very silty very gravelly medium SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423119



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	94		
14	92		
10	88		
6.3	84		
5	82		
3.35	76		
2	69		
1.18	60		
0.6	50		
0.425	44		
0.3	36		
0.212	26		
0.15	22		
0.063	20		

Dry Mass of sample, g	791

Sample Proportions	% dry mass
Very coarse	0
Gravel	31
Sand	49
Fines <0.063mm	20

Grading Analysis		
D100	mm	
D60	mm	1.18
D30	mm	0.244
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

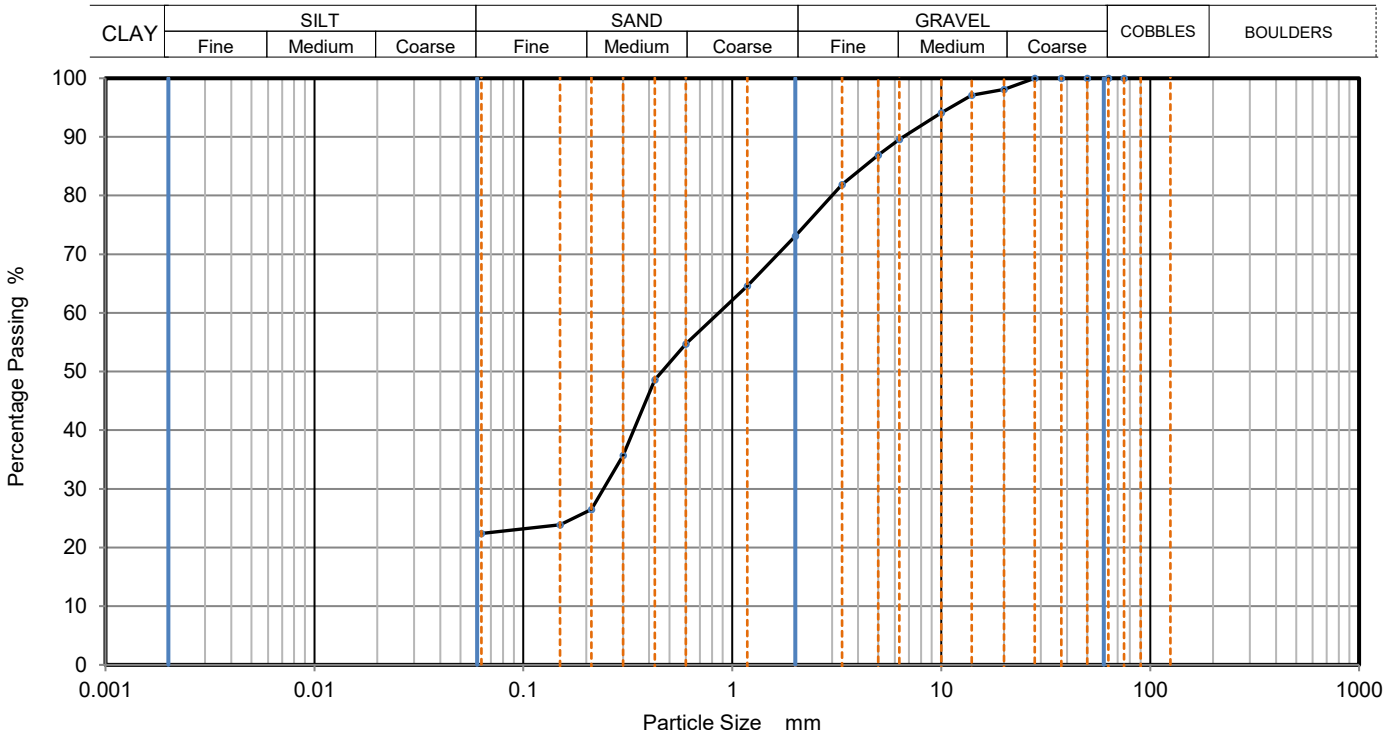
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M23
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Light brown very silty very gravelly medium SAND.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423122



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	97		
10	94		
6.3	90		
5	87		
3.35	82		
2	73		
1.18	65		
0.6	55		
0.425	49		
0.3	36		
0.212	27		
0.15	24		
0.063	22		

Dry Mass of sample, g	779

Sample Proportions	% dry mass
Very coarse	0
Gravel	27
Sand	51
Fines <0.063mm	22

Grading Analysis		
D100	mm	
D60	mm	0.862
D30	mm	0.242
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

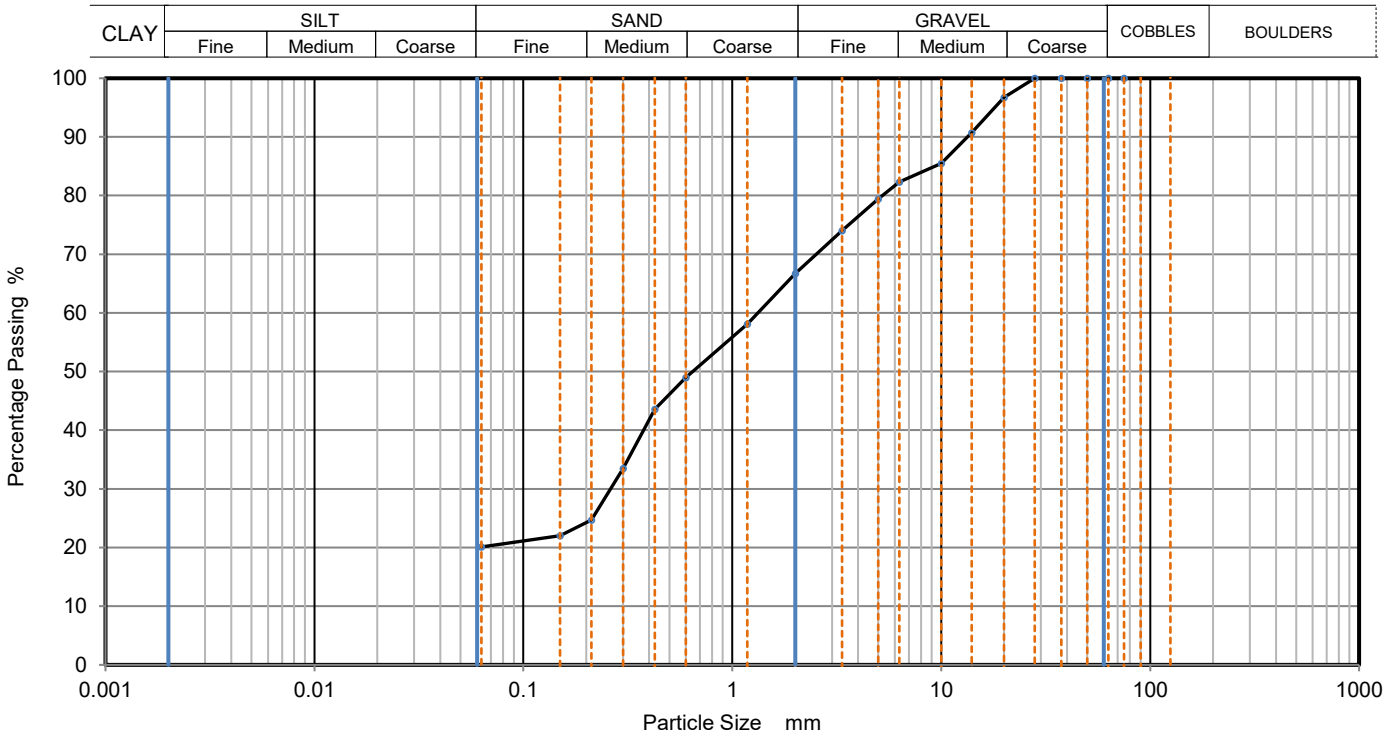
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M23
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Light brown very silty very gravelly medium SAND.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423125



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	91		
10	86		
6.3	82		
5	79		
3.35	74		
2	67		
1.18	58		
0.6	49		
0.425	44		
0.3	34		
0.212	25		
0.15	22		
0.063	20		

Dry Mass of sample, g	741

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	47
Fines <0.063mm	20

Grading Analysis		
D100	mm	
D60	mm	1.32
D30	mm	0.261
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

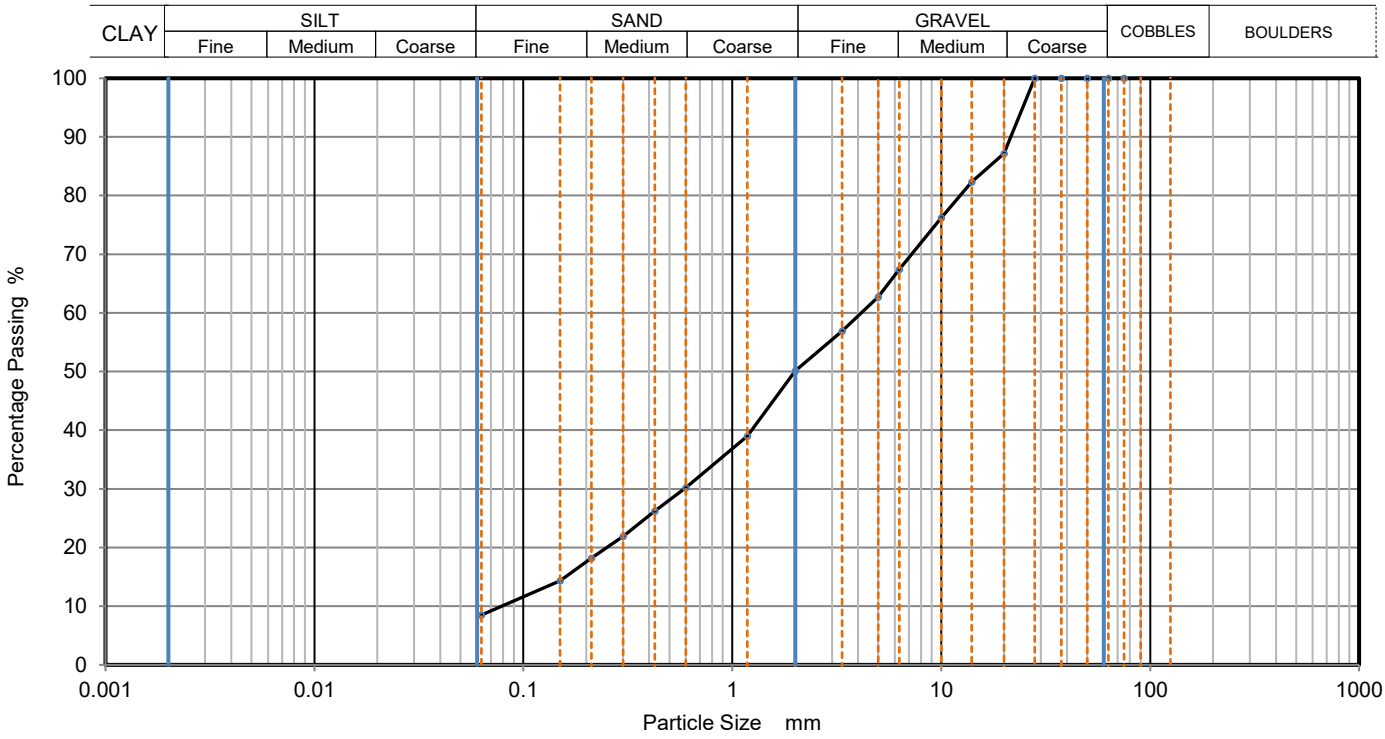
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M24
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Dark brown silty very sandy GRAVEL.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071195



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	87		
14	82		
10	76		
6.3	67		
5	63		
3.35	57		
2	50		
1.18	39		
0.6	30		
0.425	26		
0.3	22		
0.212	18		
0.15	14		
0.063	9		

Dry Mass of sample, g	705

Sample Proportions	% dry mass
Very coarse	0
Gravel	50
Sand	42
Fines <0.063mm	9

Grading Analysis		
D100	mm	
D60	mm	4.15
D30	mm	0.589
D10	mm	0.0785
Uniformity Coefficient		53
Curvature Coefficient		1.1

Remarks

Preparation and testing in accordance with BS1377 unless noted below

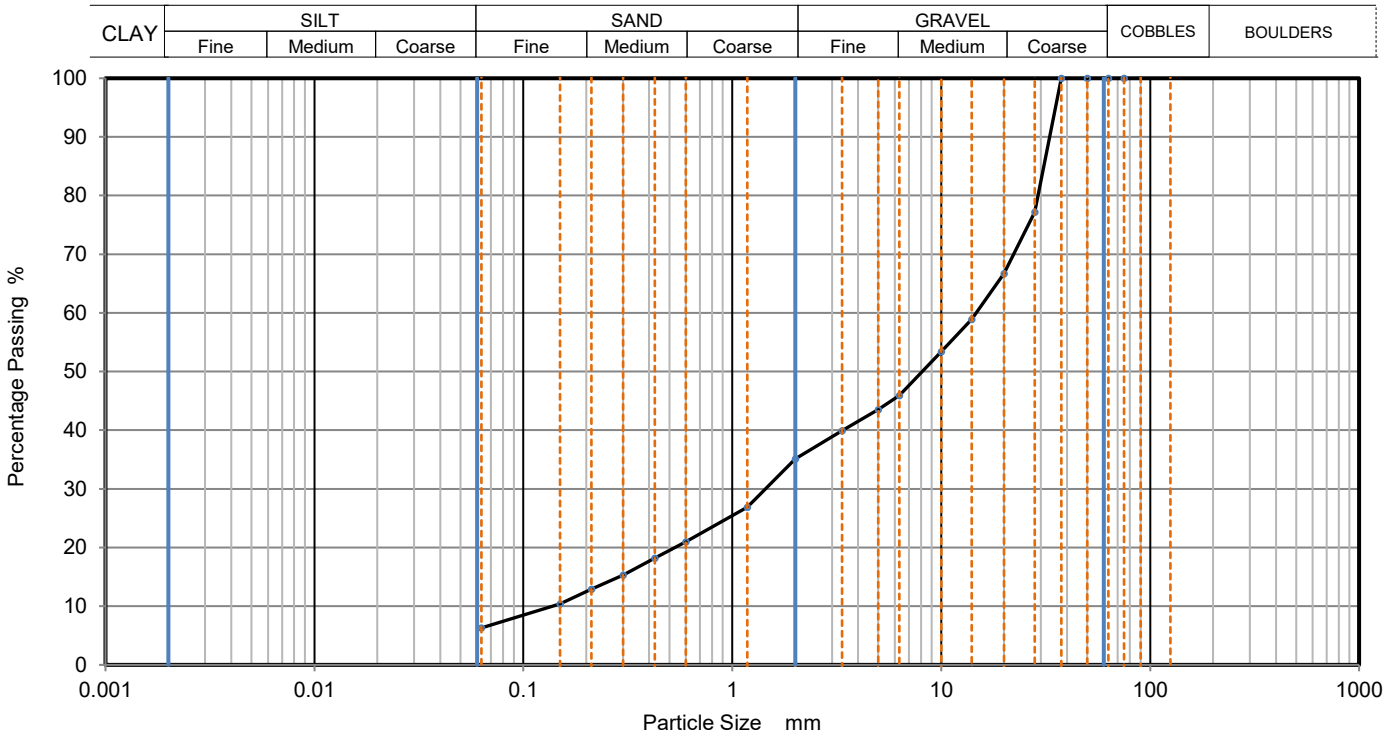
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M24
Site Name	Lot 1, Lough Talt			Sample No.	16
Soil Description	Dark brown silty very sandy medium and coarse GRAVEL.			Depth, m	5.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250711101



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	77		
20	67		
14	59		
10	53		
6.3	46		
5	44		
3.35	40		
2	35		
1.18	27		
0.6	21		
0.425	18		
0.3	15		
0.212	13		
0.15	10		
0.063	6		

Dry Mass of sample, g	645

Sample Proportions	% dry mass
Very coarse	0
Gravel	65
Sand	29
Fines <0.063mm	6

Grading Analysis		
D100	mm	
D60	mm	14.7
D30	mm	1.44
D10	mm	0.137
Uniformity Coefficient		110
Curvature Coefficient		1

Remarks

Preparation and testing in accordance with BS1377 unless noted below

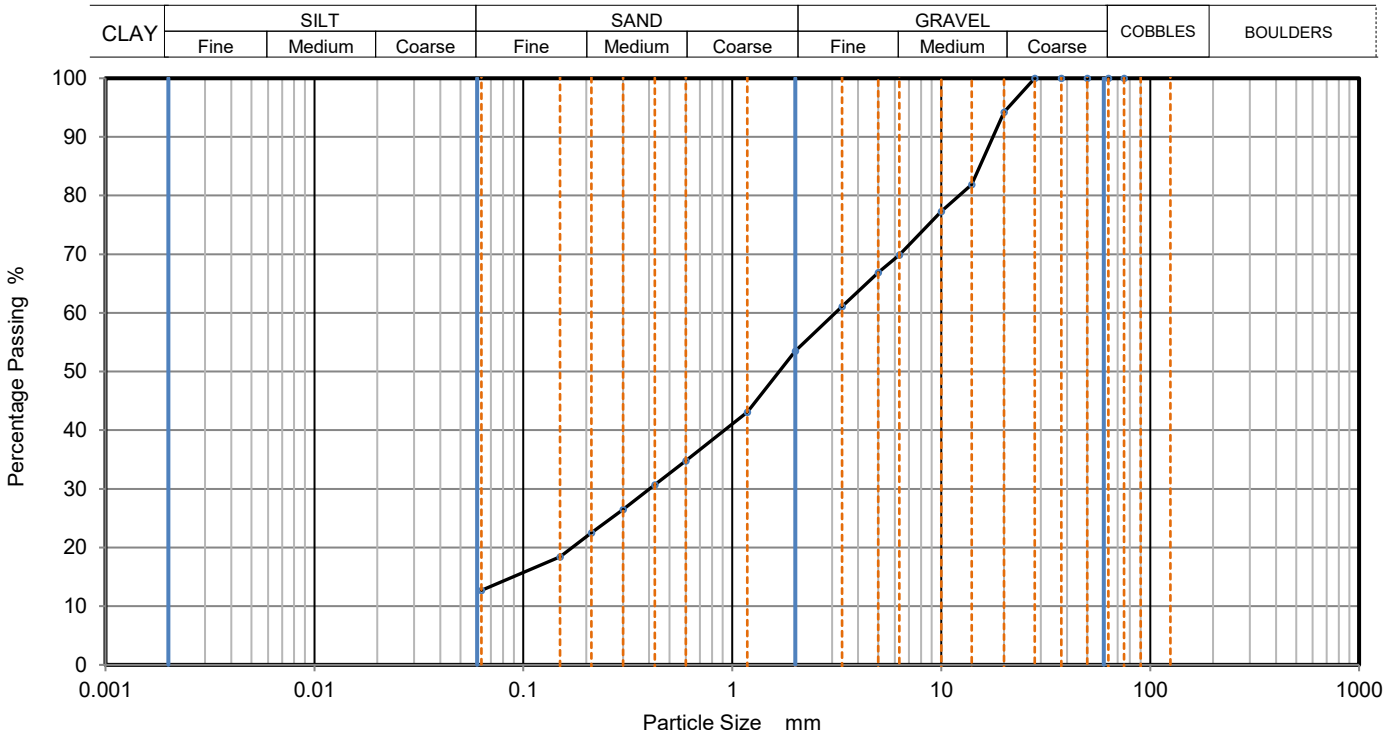
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M25
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown silty SAND and GRAVEL.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250711108



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	94		
14	82		
10	77		
6.3	70		
5	67		
3.35	61		
2	54		
1.18	43		
0.6	35		
0.425	31		
0.3	27		
0.212	23		
0.15	18		
0.063	13		

Dry Mass of sample, g	761

Sample Proportions	% dry mass
Very coarse	0
Gravel	47
Sand	41
Fines <0.063mm	13

Grading Analysis		
D100	mm	
D60	mm	3.12
D30	mm	0.402
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

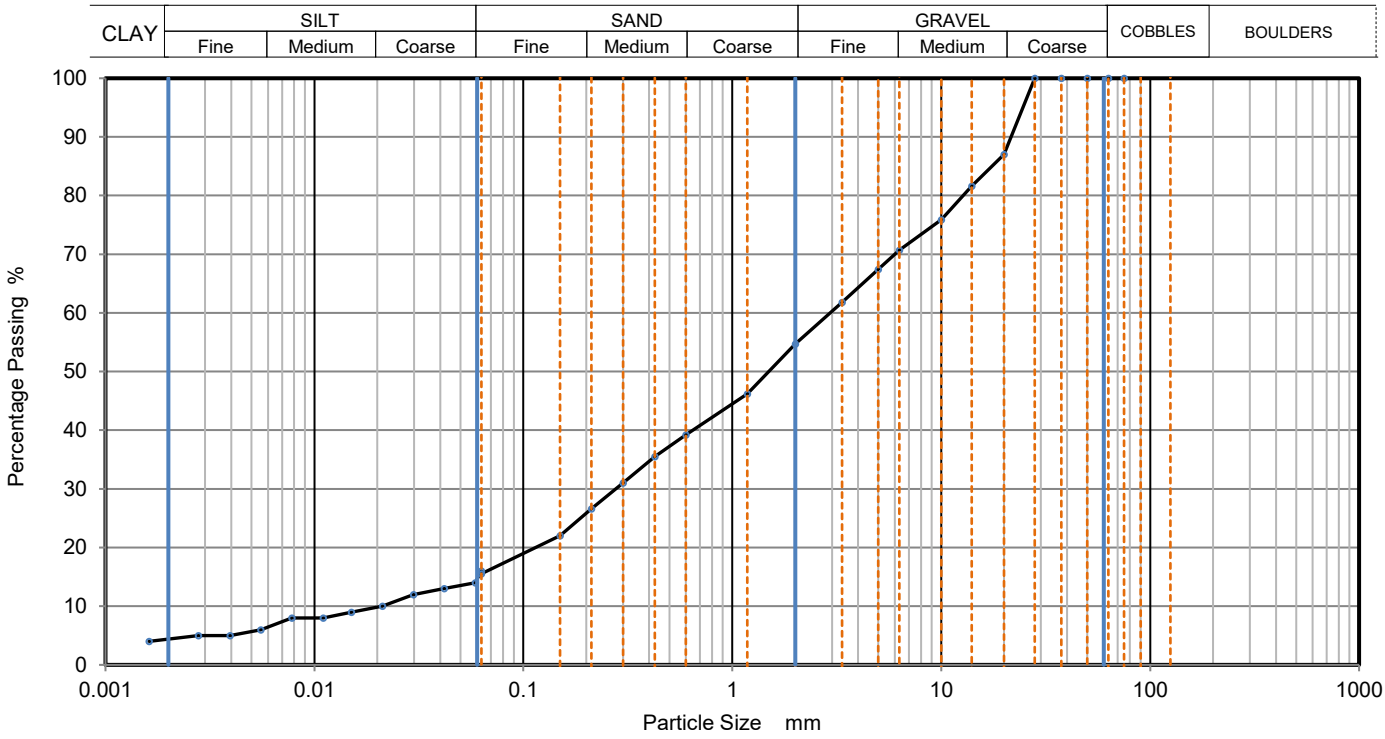
Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	Approved	Sheet printed	
		Dympna Darcy B.Sc.	10/11/2025 16:25	**1** QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M25
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Light brown silty SAND and GRAVEL.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250711114



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	16
		0.0588	14
75	100	0.0418	13
63	100	0.0297	12
50	100	0.0211	10
37.5	100	0.0150	9
28	100	0.0110	8
20	87	0.0078	8
14	82	0.0055	6
10	76	0.0039	5
6.3	71	0.0028	5
5	67	0.0016	4
3.35	62		
2	55		
1.18	46		
0.6	39	Particle density (assumed)	
0.425	36	2.65 Mg/m3	
0.3	31		
0.212	27		
0.15	22		
0.063	16		

Dry Mass of sample, g	678

Sample Proportions	% dry mass
Very coarse	0
Gravel	45
Sand	39
Silt	11
Clay	4

Grading Analysis		
D100	mm	
D60	mm	2.94
D30	mm	0.277
D10	mm	0.0194
Uniformity Coefficient		150
Curvature Coefficient		1.4

Remarks

Preparation and testing in accordance with BS1377 unless noted below

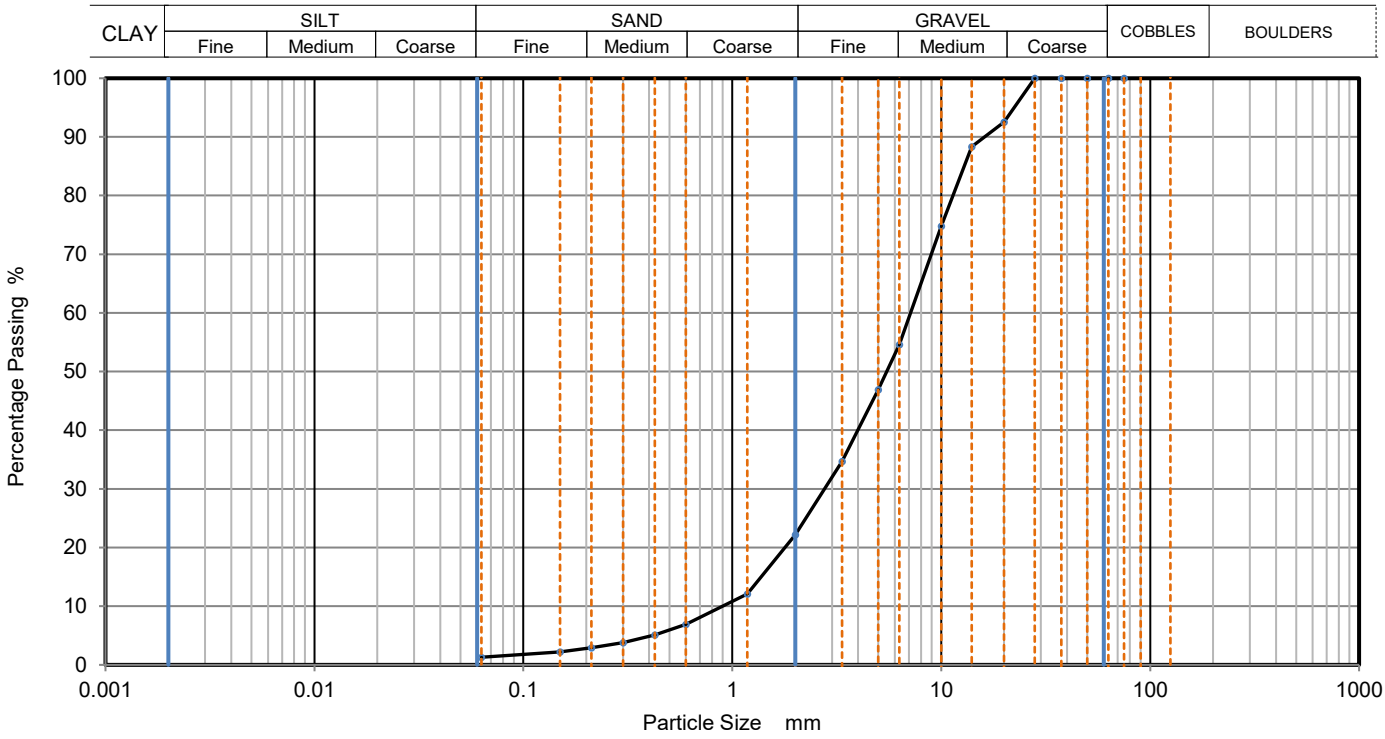
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M25
Site Name	Lot 1, Lough Talt			Sample No.	16
Soil Description	Bluish-grey very sandy fine and medium GRAVEL.			Depth, m	5.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250711120



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	93		
14	88		
10	75		
6.3	55		
5	47		
3.35	35		
2	22		
1.18	12		
0.6	7		
0.425	5		
0.3	4		
0.212	3		
0.15	2		
0.063	1		

Dry Mass of sample, g	776

Sample Proportions	% dry mass
Very coarse	0
Gravel	78
Sand	21
Fines <0.063mm	1

Grading Analysis		
D100	mm	
D60	mm	7.14
D30	mm	2.76
D10	mm	0.898
Uniformity Coefficient		7.9
Curvature Coefficient		1.2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

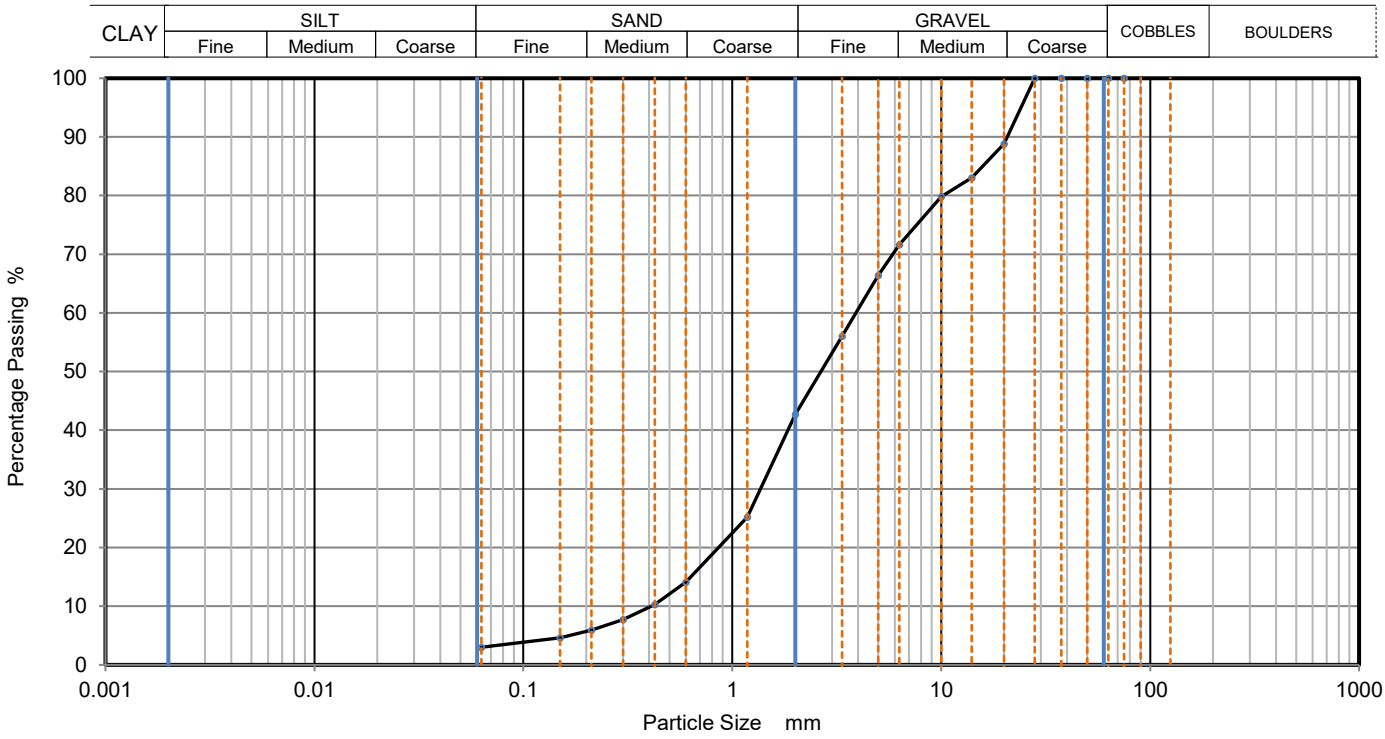
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M25
Site Name	Lot 1, Lough Talt			Sample No.	19
Soil Description	Light brown slightly silty very sandy GRAVEL. Sand is coarse.			Depth, m	6.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250711123



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	89		
14	83		
10	80		
6.3	72		
5	66		
3.35	56		
2	43		
1.18	25		
0.6	14		
0.425	10		
0.3	8		
0.212	6		
0.15	5		
0.063	3		

Dry Mass of sample, g	772

Sample Proportions	% dry mass
Very coarse	0
Gravel	57
Sand	40
Fines <0.063mm	3

Grading Analysis		
D100	mm	
D60	mm	3.91
D30	mm	1.36
D10	mm	0.408
Uniformity Coefficient		9.6
Curvature Coefficient		1.2

Remarks

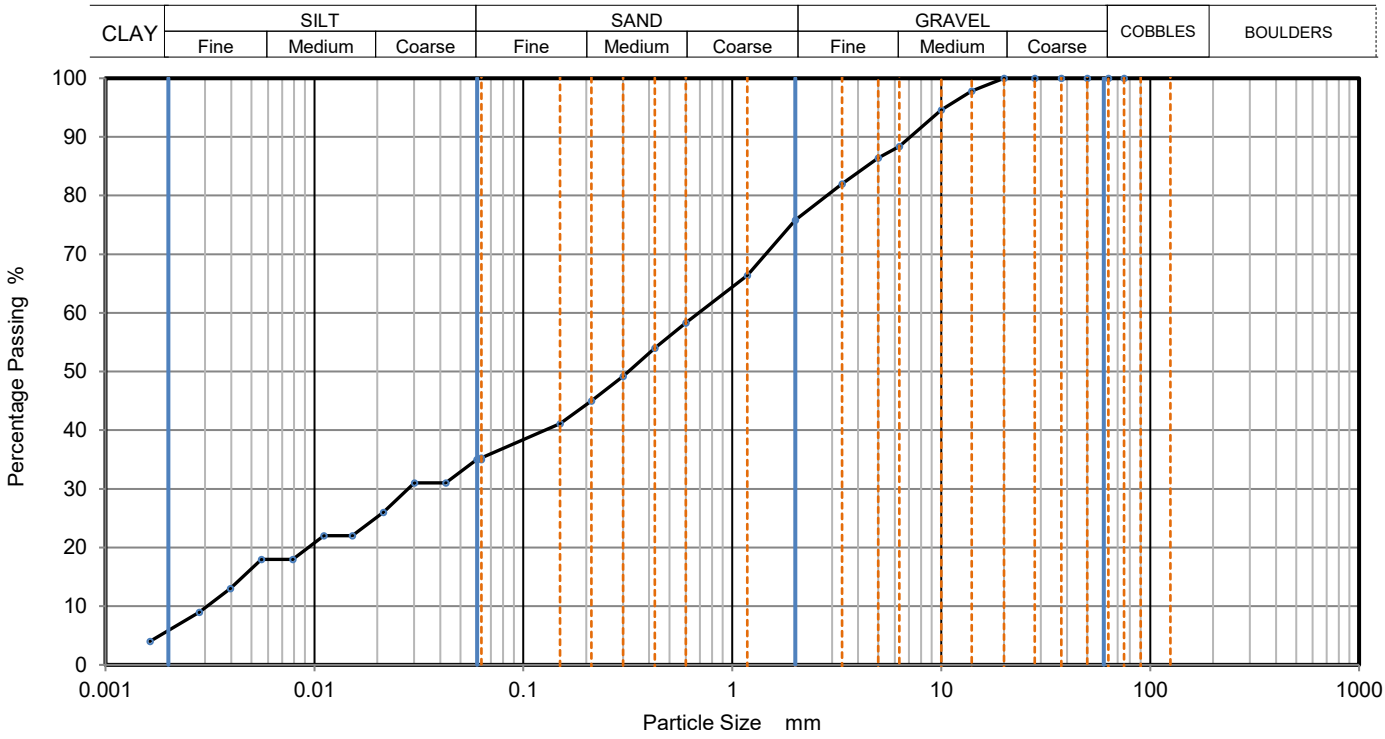
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M26
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark brown slightly gravelly sandy SILT.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250711128



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	35
		0.0598	35
75	100	0.0425	31
63	100	0.0300	31
50	100	0.0214	26
37.5	100	0.0152	22
28	100	0.0111	22
20	100	0.0079	18
14	98	0.0056	18
10	95	0.0040	13
6.3	88	0.0028	9
5	86	0.0016	4
3.35	82		
2	76		
1.18	66		
0.6	58	Particle density (assumed)	
0.425	54	2.65 Mg/m3	
0.3	49		
0.212	45		
0.15	41		
0.063	35		

Dry Mass of sample, g	460

Sample Proportions	% dry mass
Very coarse	0
Gravel	24
Sand	41
Silt	29
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.691
D30	mm	0.0281
D10	mm	0.00308
Uniformity Coefficient		220
Curvature Coefficient		0.37

Remarks

Preparation and testing in accordance with BS1377 unless noted below

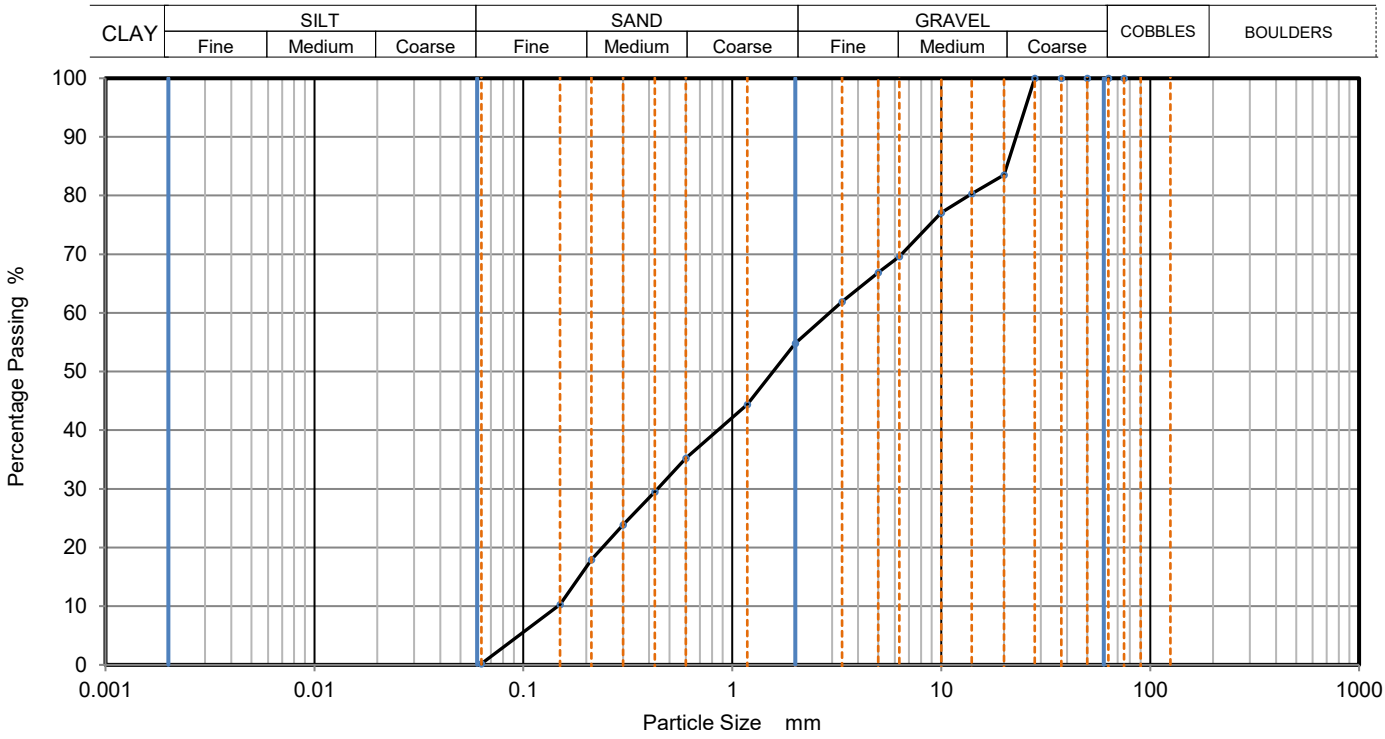
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				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M27
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark brown very gravelly SAND.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250711133



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	84		
14	80		
10	77		
6.3	70		
5	67		
3.35	62		
2	55		
1.18	44		
0.6	35		
0.425	30		
0.3	24		
0.212	18		
0.15	10		
0.063	0		

Dry Mass of sample, g	191

Sample Proportions	% dry mass
Very coarse	0
Gravel	45
Sand	55
Fines <0.063mm	0

Grading Analysis		
D100	mm	
D60	mm	2.91
D30	mm	0.439
D10	mm	0.146
Uniformity Coefficient		20
Curvature Coefficient		0.45

Remarks

Preparation and testing in accordance with BS1377 unless noted below

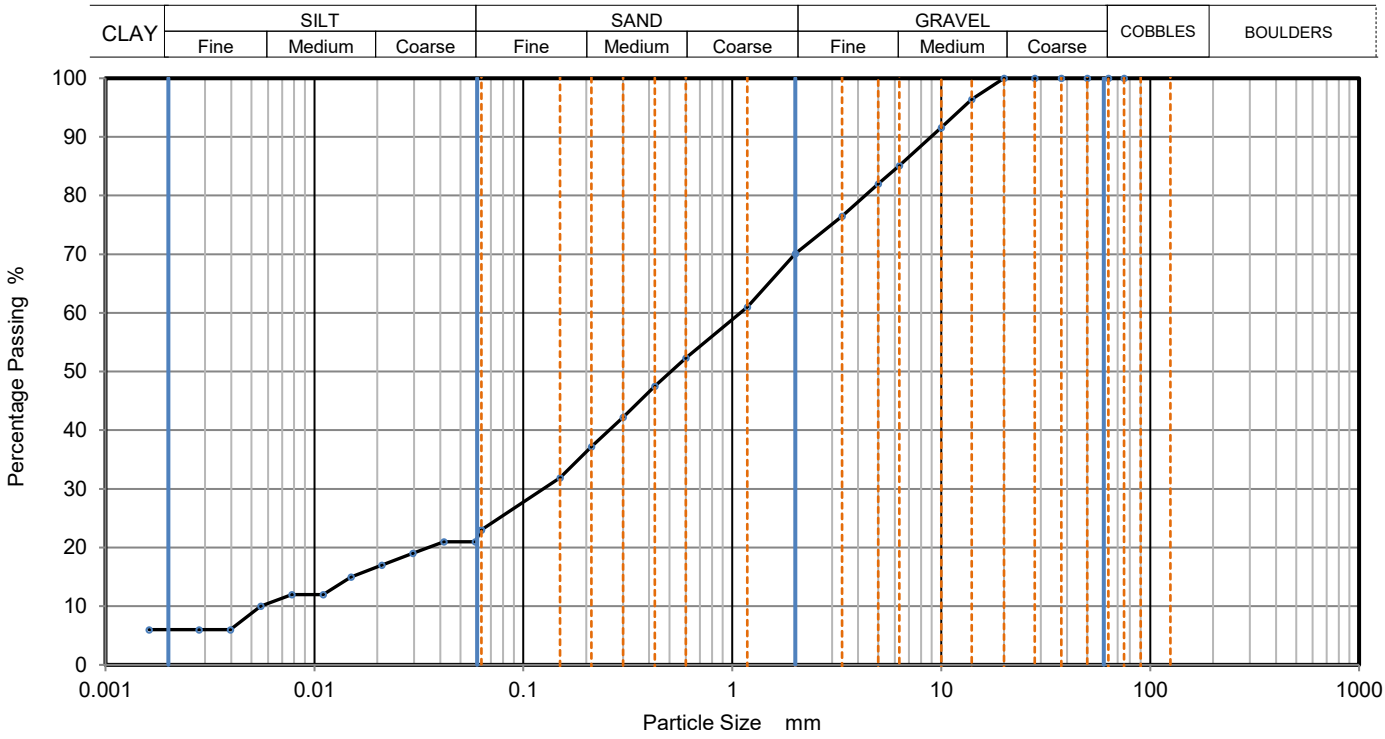
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M27
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Light brown very silty very gravelly SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250711136



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	23
		0.0588	21
75	100	0.0416	21
63	100	0.0296	19
50	100	0.0210	17
37.5	100	0.0149	15
28	100	0.0110	12
20	100	0.0078	12
14	96	0.0055	10
10	92	0.0040	6
6.3	85	0.0028	6
5	82	0.0016	6
3.35	77		
2	70		
1.18	61		
0.6	52	Particle density (assumed)	
0.425	48	2.65 Mg/m3	
0.3	42		
0.212	37		
0.15	32		
0.063	23		

Dry Mass of sample, g	622

Sample Proportions	% dry mass
Very coarse	0
Gravel	30
Sand	47
Silt	17
Clay	6

Grading Analysis		
D100	mm	
D60	mm	1.09
D30	mm	0.125
D10	mm	0.00597
Uniformity Coefficient		180
Curvature Coefficient		2.4

Remarks

Preparation and testing in accordance with BS1377 unless noted below

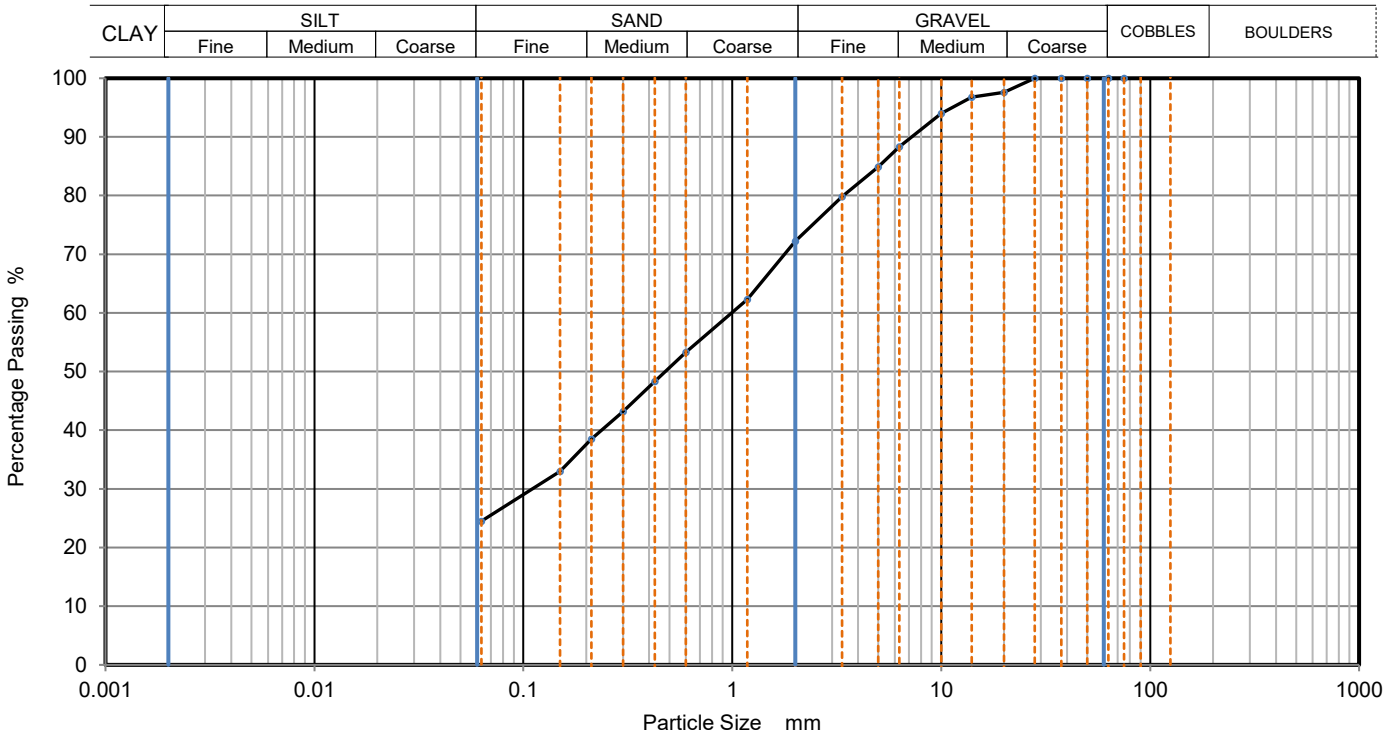
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-M27
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Greyish-light-brown slightly sandy gravelly SILT.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250711139



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	97		
10	94		
6.3	88		
5	85		
3.35	80		
2	72		
1.18	62		
0.6	53		
0.425	48		
0.3	43		
0.212	39		
0.15	33		
0.063	25		

Dry Mass of sample, g	631

Sample Proportions	% dry mass
Very coarse	0
Gravel	28
Sand	48
Fines <0.063mm	25

Grading Analysis		
D100	mm	
D60	mm	0.993
D30	mm	0.11
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

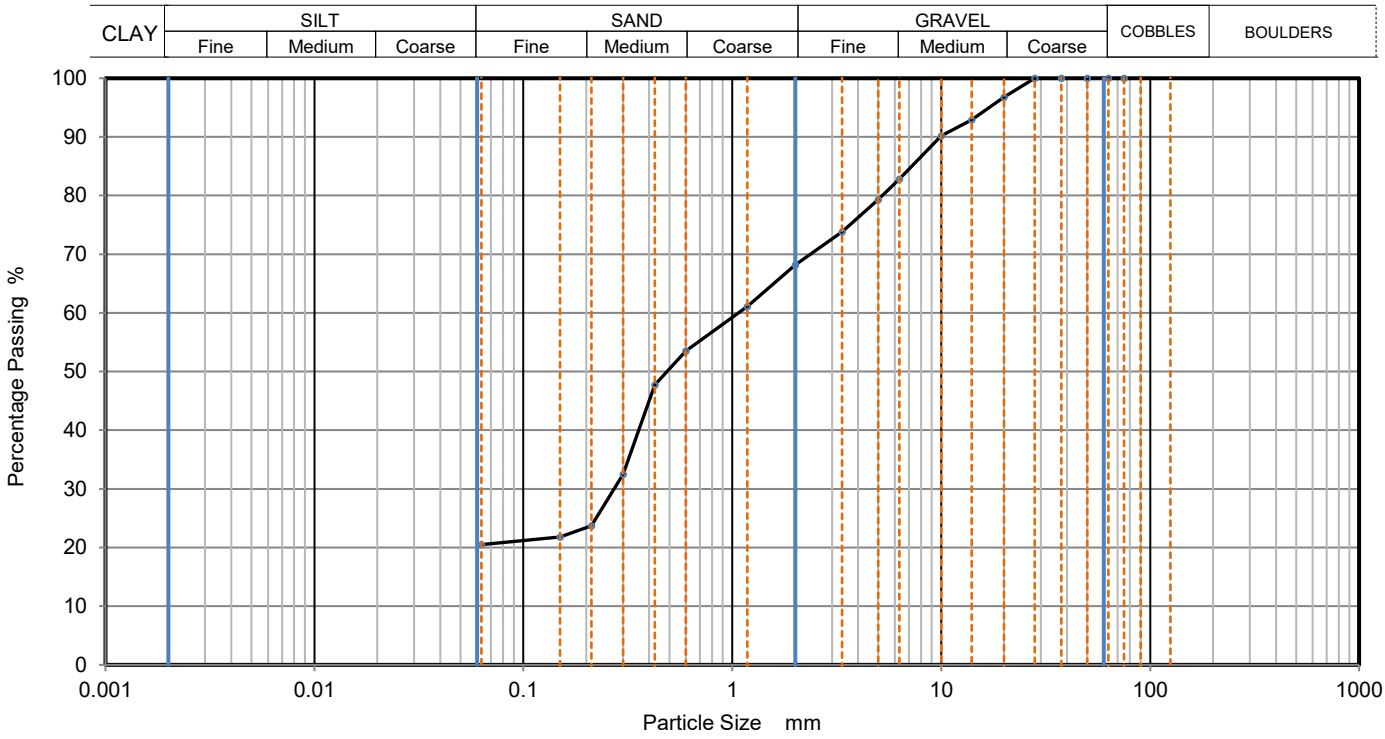
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

	PARTICLE SIZE DISTRIBUTION			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-R1
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown very silty very gravelly medium SAND.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423130



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	93		
10	90		
6.3	83		
5	79		
3.35	74		
2	68		
1.18	61		
0.6	54		
0.425	48		
0.3	33		
0.212	24		
0.15	22		
0.063	21		

Dry Mass of sample, g	769

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	48
Fines <0.063mm	20

Grading Analysis		
D100	mm	
D60	mm	1.07
D30	mm	0.272
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

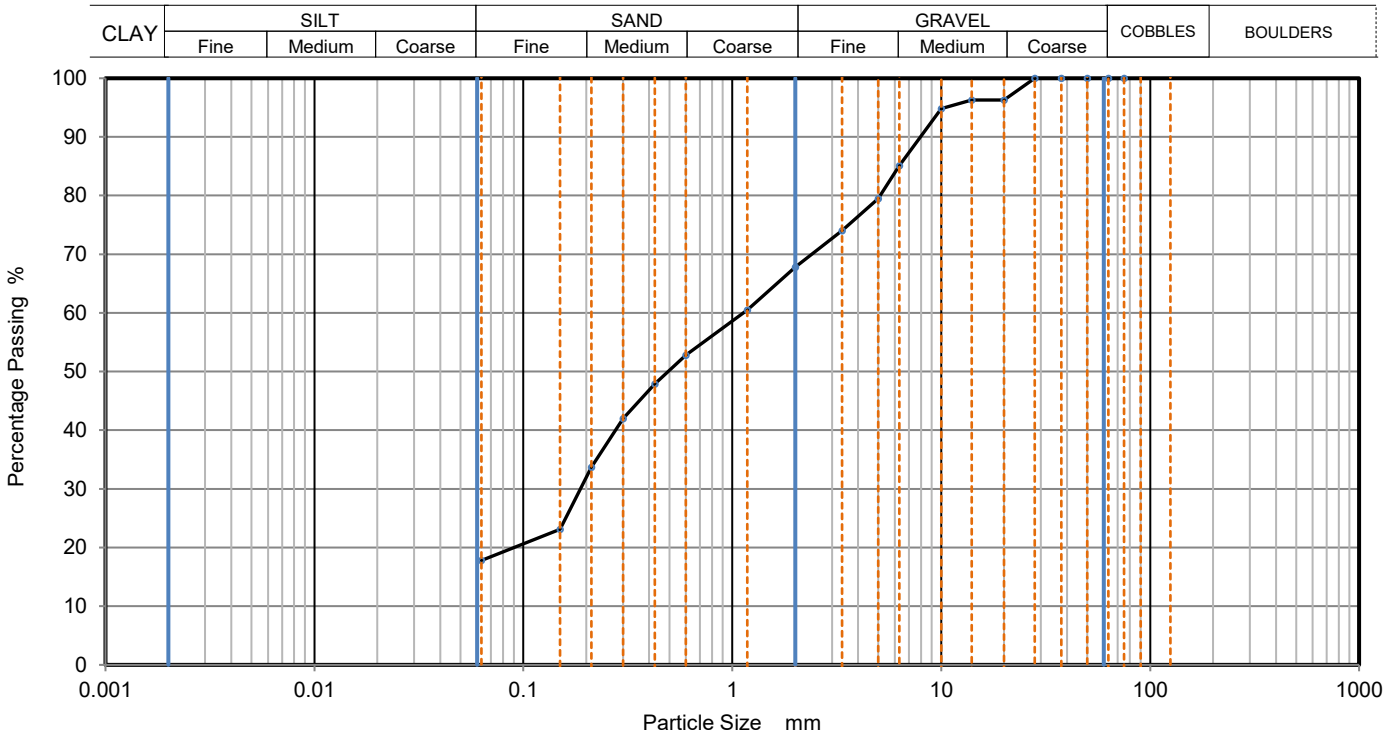
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-R1
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Light brown silty very gravelly SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423133



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	96		
14	96		
10	95		
6.3	85		
5	80		
3.35	74		
2	68		
1.18	61		
0.6	53		
0.425	48		
0.3	42		
0.212	34		
0.15	23		
0.063	18		

Dry Mass of sample, g	768

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	50
Fines <0.063mm	18

Grading Analysis		
D100	mm	
D60	mm	1.13
D30	mm	0.188
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

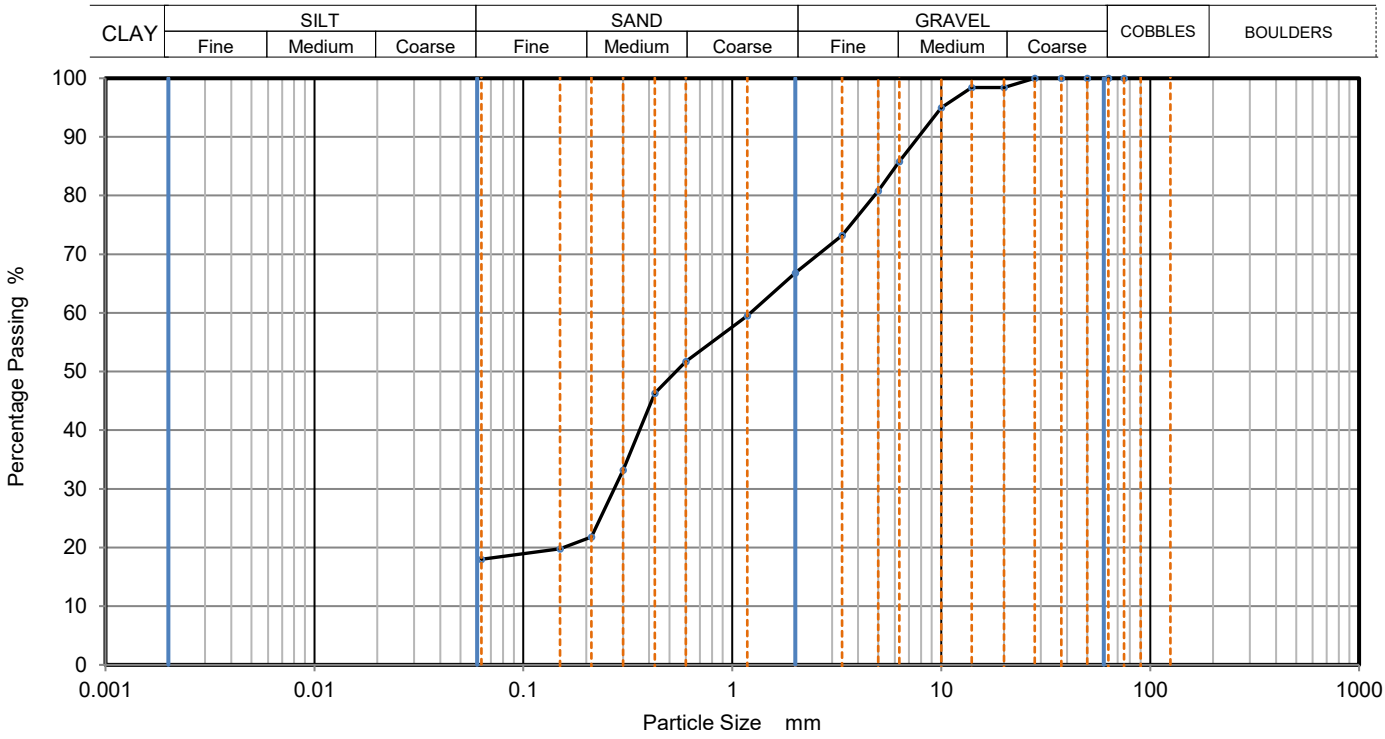
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-R1
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Light brown silty very gravelly medium SAND.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423136



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	98		
10	95		
6.3	86		
5	81		
3.35	73		
2	67		
1.18	60		
0.6	52		
0.425	46		
0.3	33		
0.212	22		
0.15	20		
0.063	18		

Dry Mass of sample, g	709

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	49
Fines <0.063mm	18

Grading Analysis		
D100	mm	
D60	mm	1.22
D30	mm	0.272
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

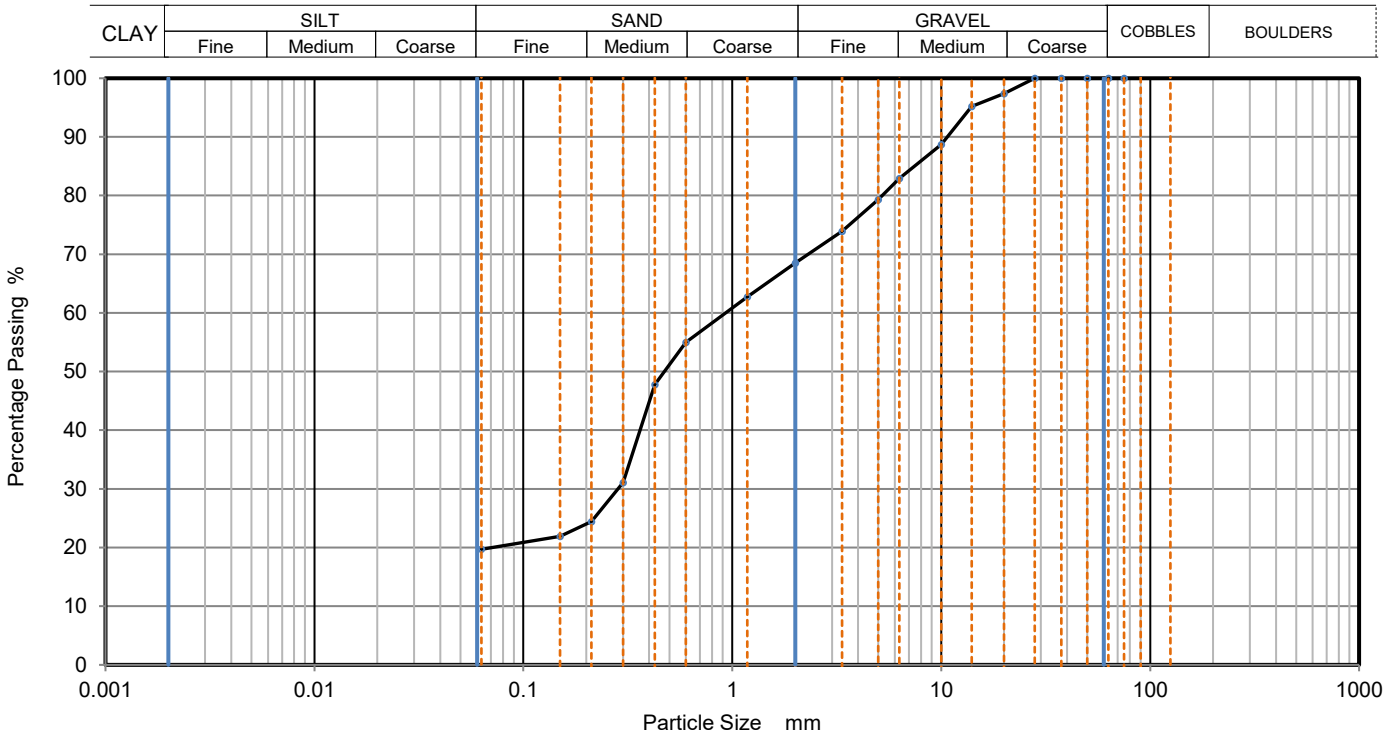
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-R1
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Light brown very silty very gravelly medium SAND.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423139



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	95		
10	89		
6.3	83		
5	79		
3.35	74		
2	69		
1.18	63		
0.6	55		
0.425	48		
0.3	31		
0.212	24		
0.15	22		
0.063	20		

Dry Mass of sample, g	738

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	49
Fines <0.063mm	20

Grading Analysis		
D100	mm	
D60	mm	0.929
D30	mm	0.283
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

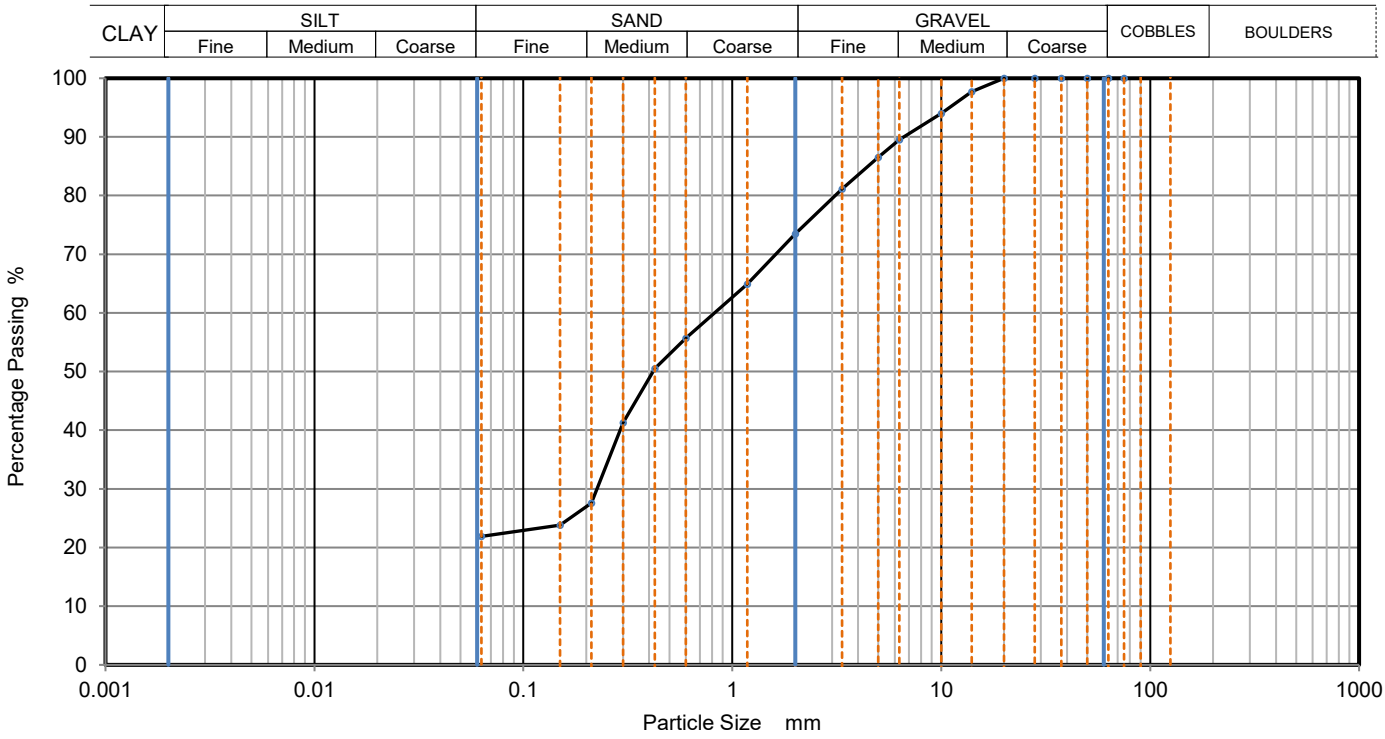
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-R2
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Brown very silty very gravelly medium SAND.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423144



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	94		
6.3	90		
5	87		
3.35	81		
2	74		
1.18	65		
0.6	56		
0.425	51		
0.3	41		
0.212	28		
0.15	24		
0.063	22		

Dry Mass of sample, g	682

Sample Proportions	% dry mass
Very coarse	0
Gravel	27
Sand	52
Fines <0.063mm	22

Grading Analysis		
D100	mm	
D60	mm	0.822
D30	mm	0.225
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

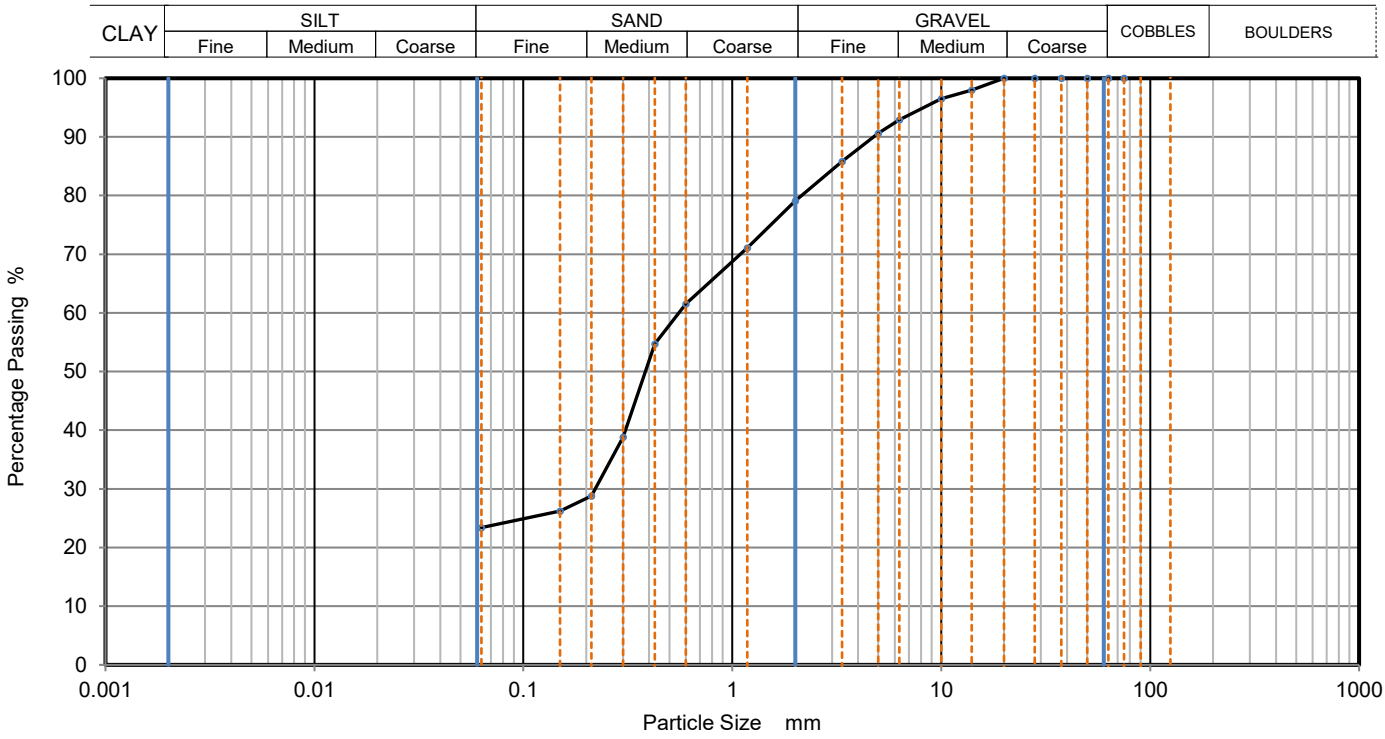
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-R2
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Brown very gravelly very silty medium SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423147



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	97		
6.3	93		
5	91		
3.35	86		
2	79		
1.18	71		
0.6	62		
0.425	55		
0.3	39		
0.212	29		
0.15	26		
0.063	23		

Dry Mass of sample, g	686

Sample Proportions	% dry mass
Very coarse	0
Gravel	21
Sand	56
Fines <0.063mm	23

Grading Analysis		
D100	mm	
D60	mm	0.555
D30	mm	0.221
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

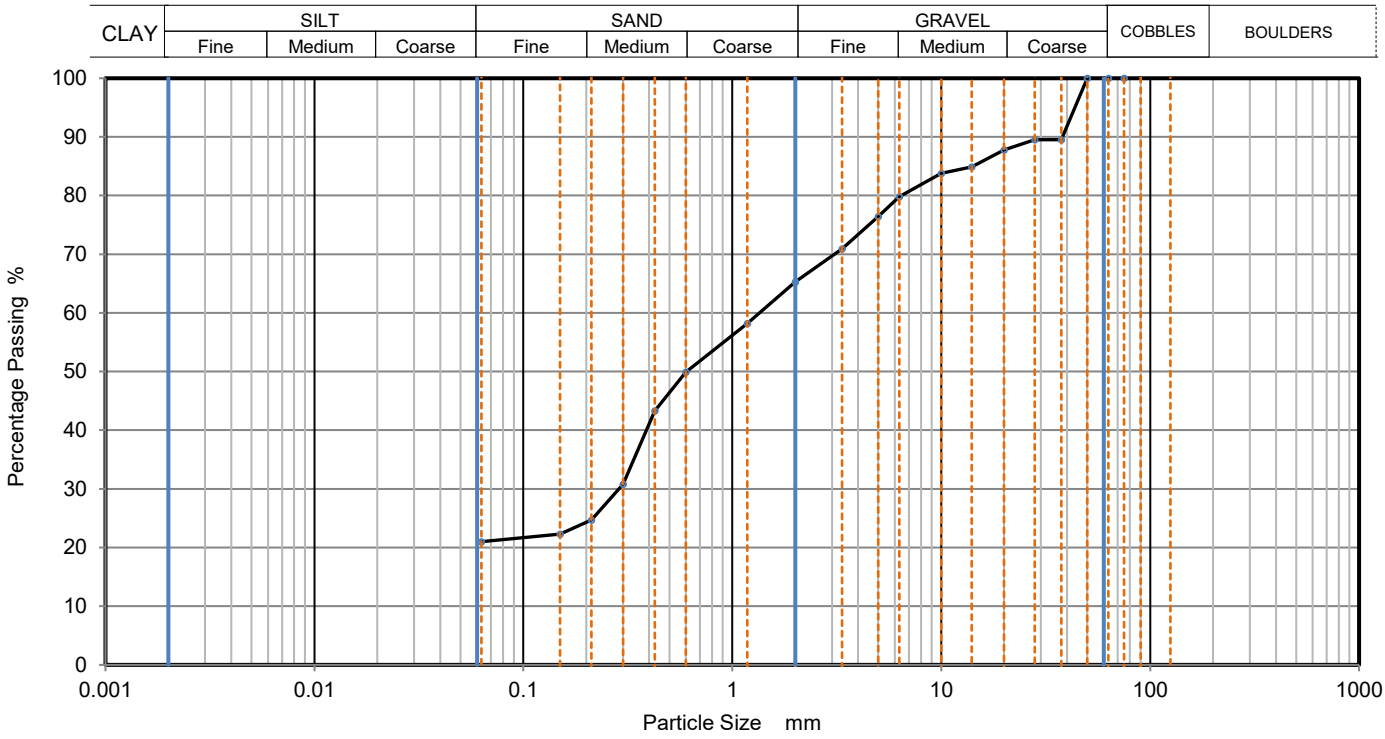
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-R2
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Light brown very silty very gravelly medium SAND.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250423150



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	90		
28	90		
20	88		
14	85		
10	84		
6.3	80		
5	76		
3.35	71		
2	65		
1.18	58		
0.6	50		
0.425	43		
0.3	31		
0.212	25		
0.15	22		
0.063	21		

Dry Mass of sample, g	769

Sample Proportions	% dry mass
Very coarse	0
Gravel	35
Sand	44
Fines <0.063mm	21

Grading Analysis		
D100	mm	
D60	mm	1.35
D30	mm	0.287
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

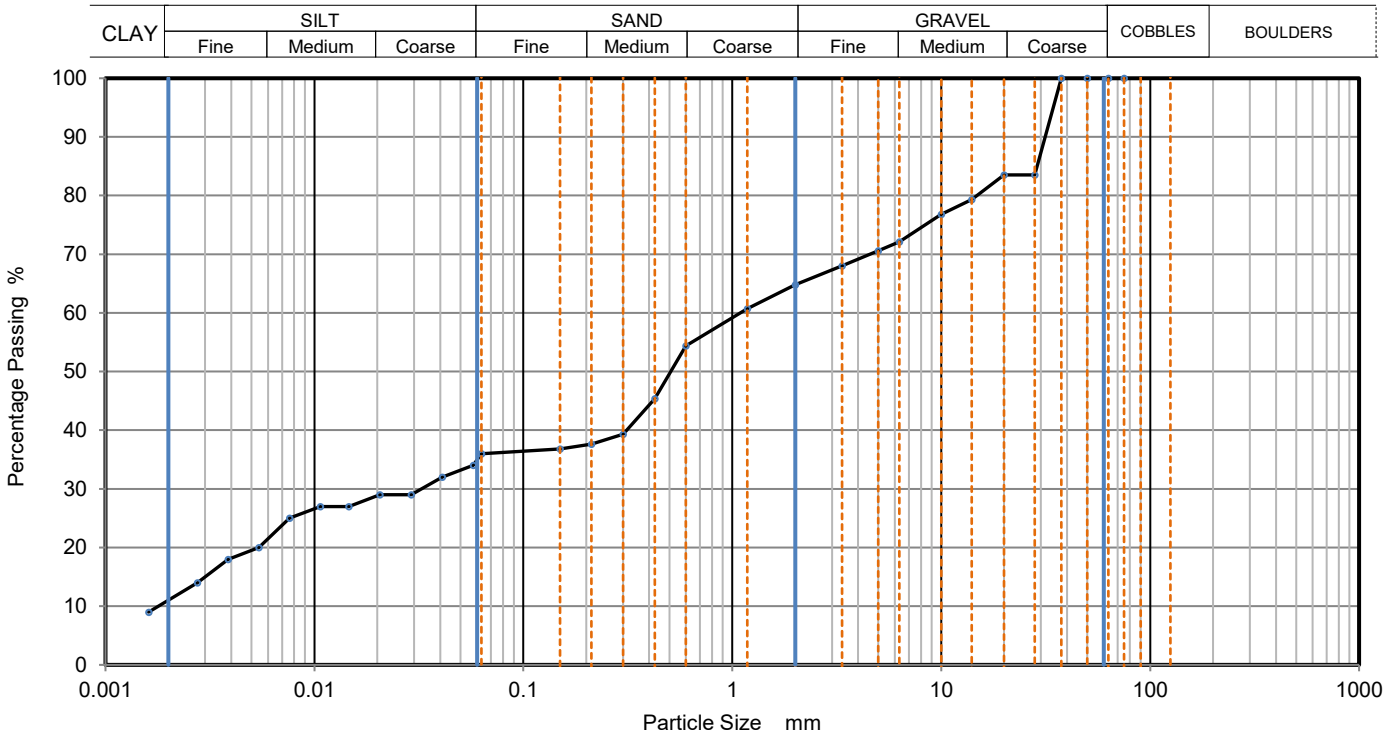
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T01
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Grey slightly sandy gravelly SILT.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	D
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202504291



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	36
		0.0575	34
75	100	0.0409	32
63	100	0.0291	29
50	100	0.0206	29
37.5	100	0.0146	27
28	84	0.0107	27
20	84	0.0076	25
14	79	0.0054	20
10	77	0.0039	18
6.3	72	0.0028	14
5	71	0.0016	9
3.35	68		
2	65		
1.18	61		
0.6	54	Particle density (assumed)	
0.425	45	2.65	Mg/m3
0.3	39		
0.212	38		
0.15	37		
0.063	36		

Dry Mass of sample, g	930

Sample Proportions	% dry mass
Very coarse	0
Gravel	35
Sand	29
Silt	25
Clay	11

Grading Analysis		
D100	mm	
D60	mm	1.1
D30	mm	0.0326
D10	mm	0.00181
Uniformity Coefficient		610
Curvature Coefficient		0.53

Remarks

Preparation and testing in accordance with BS1377 unless noted below

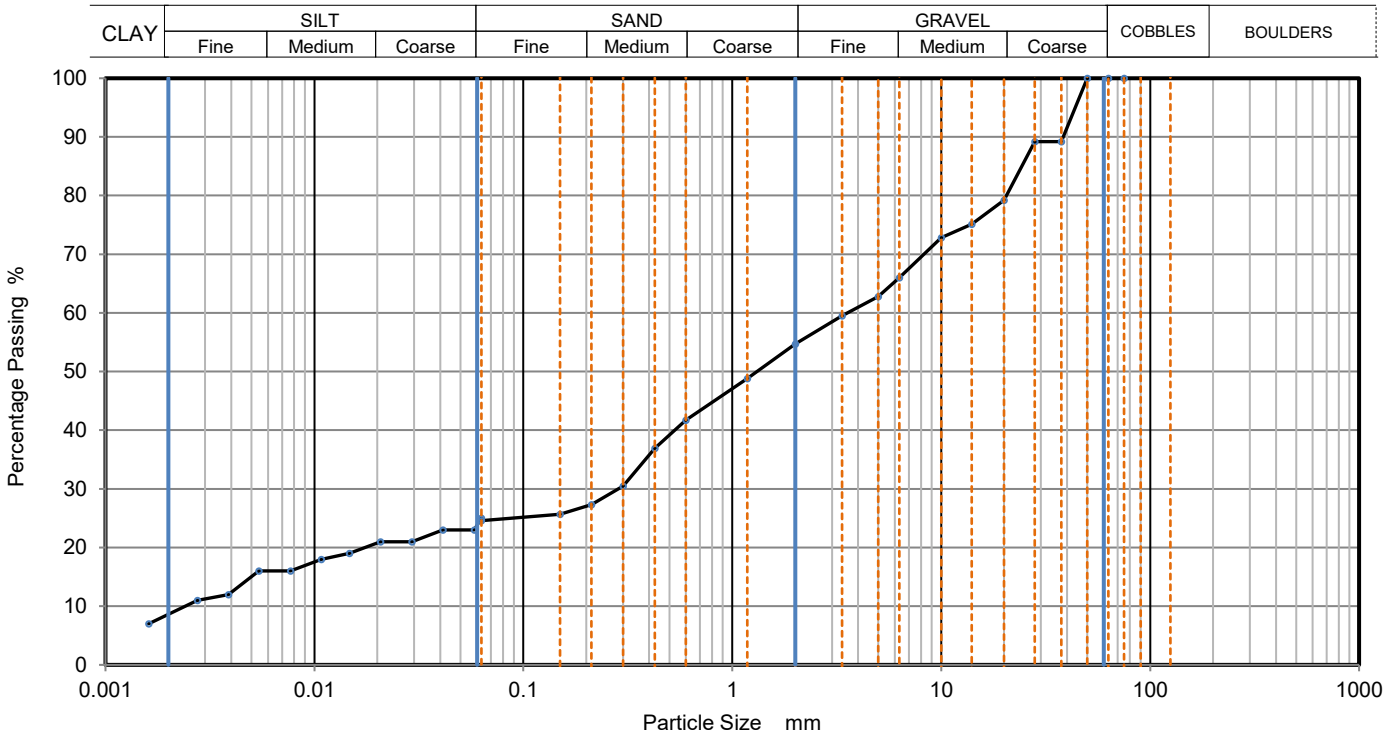
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T01
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Grey slightly sandy gravelly SILT.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	D
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202504294



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	25
		0.0582	23
75	100	0.0411	23
63	100	0.0292	21
50	100	0.0207	21
37.5	89	0.0147	19
28	89	0.0108	18
20	79	0.0077	16
14	75	0.0054	16
10	73	0.0039	12
6.3	66	0.0028	11
5	63	0.0016	7
3.35	60		
2	55		
1.18	49		
0.6	42	Particle density (assumed)	
0.425	37	2.65 Mg/m3	
0.3	31		
0.212	27		
0.15	26		
0.063	25		

Dry Mass of sample, g	948

Sample Proportions	% dry mass
Very coarse	0
Gravel	45
Sand	30
Silt	16
Clay	8

Grading Analysis		
D100	mm	
D60	mm	3.57
D30	mm	0.284
D10	mm	0.00254
Uniformity Coefficient		1400
Curvature Coefficient		8.9

Remarks

Preparation and testing in accordance with BS1377 unless noted below

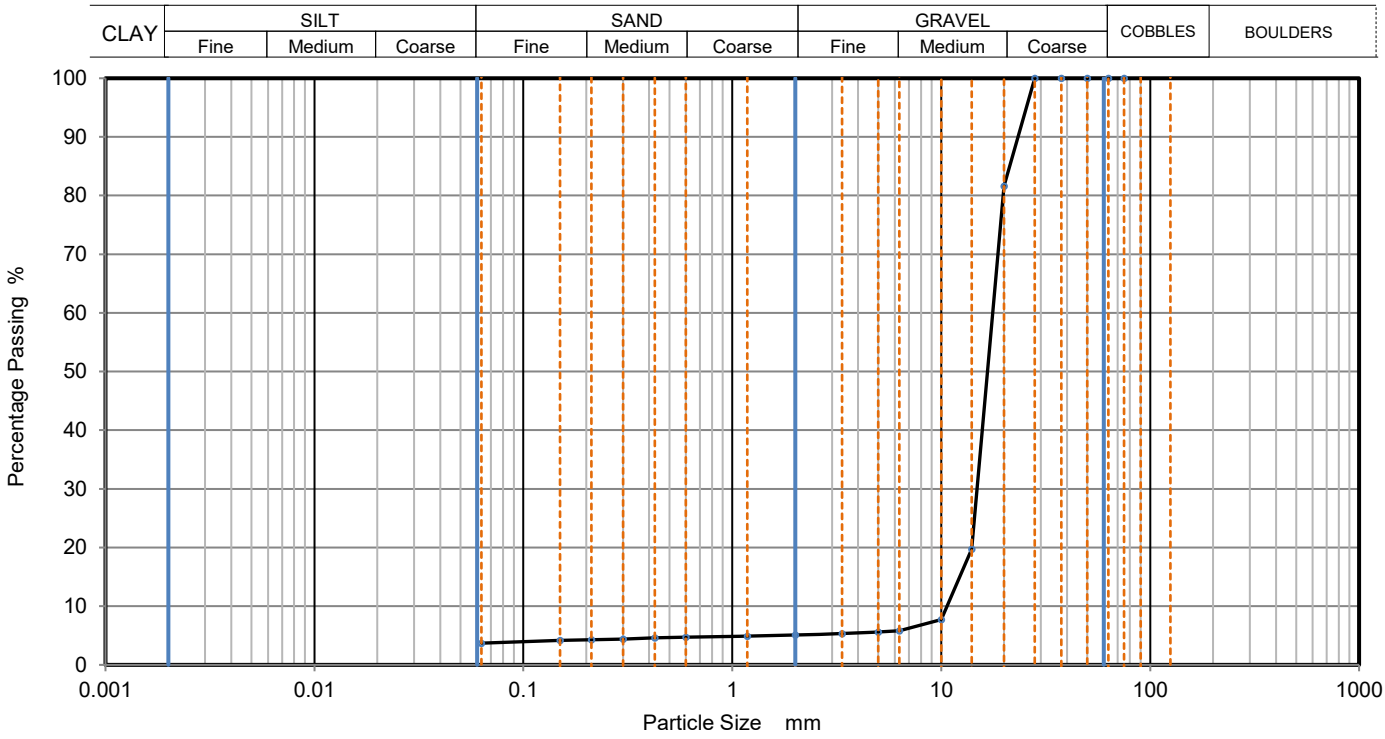
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T01
Site Name	Lot 1, Lough Talt			Sample No.	
Soil Description	Core: Blue-grey medium GRAVEL.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	C
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202505011



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	82		
14	20		
10	8		
6.3	6		
5	6		
3.35	5		
2	5		
1.18	5		
0.6	5		
0.425	5		
0.3	4		
0.212	4		
0.15	4		
0.063	4		

Dry Mass of sample, g: 854

Sample Proportions	% dry mass
Very coarse	0
Gravel	95
Sand	2
Fines <0.063mm	4

Grading Analysis		
D100	mm	
D60	mm	17.7
D30	mm	14.9
D10	mm	10.7
Uniformity Coefficient		1.7
Curvature Coefficient		1.2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

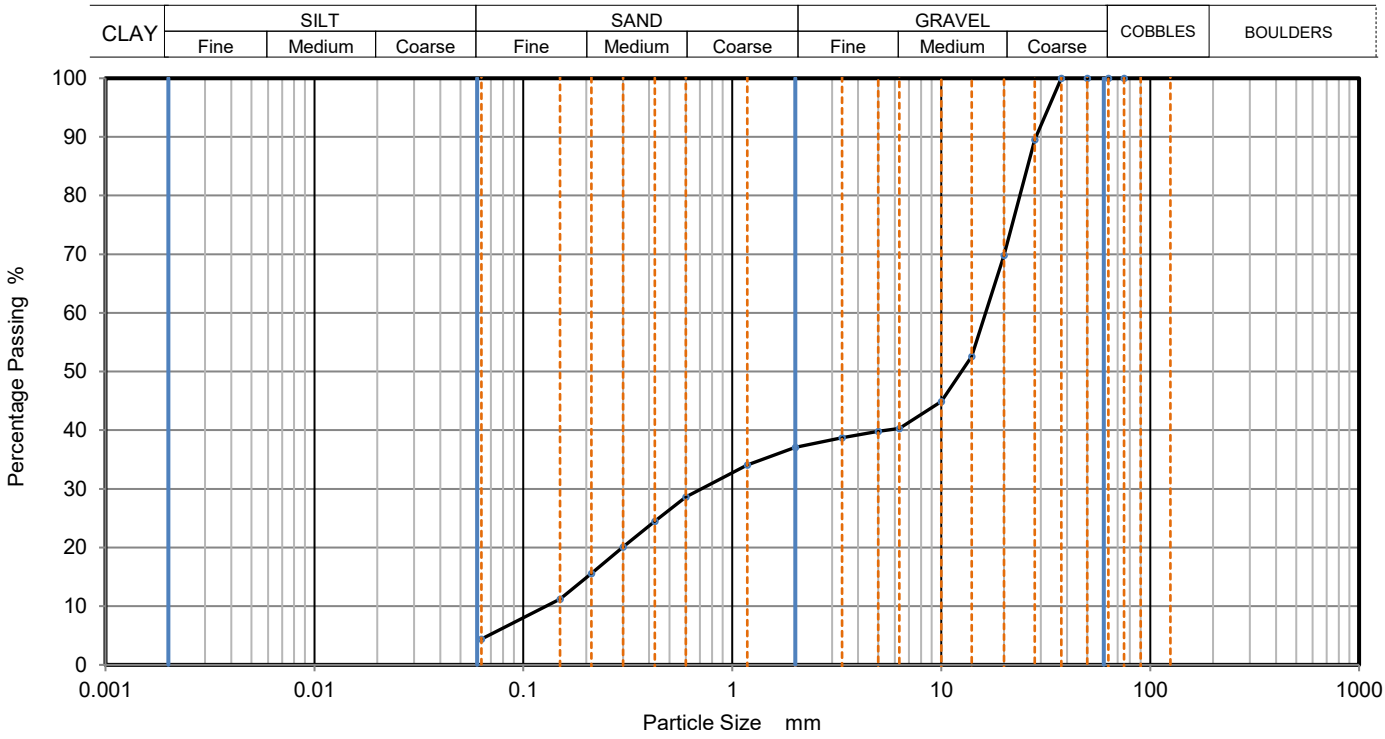
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T01
Site Name	Lot 1, Lough Talt			Sample No.	
Soil Description	Core: Grey slightly silty very sandy medium and coarse GRAVEL.			Depth, m	7.10
Specimen Reference		Specimen Depth	m	Sample Type	C
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202505016



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	90		
20	70		
14	53		
10	45		
6.3	40		
5	40		
3.35	39		
2	37		
1.18	34		
0.6	29		
0.425	25		
0.3	20		
0.212	16		
0.15	11		
0.063	4		

Dry Mass of sample, g	828

Sample Proportions	% dry mass
Very coarse	0
Gravel	63
Sand	33
Fines <0.063mm	4

Grading Analysis		
D100	mm	
D60	mm	16.3
D30	mm	0.715
D10	mm	0.129
Uniformity Coefficient		130
Curvature Coefficient		0.24

Remarks

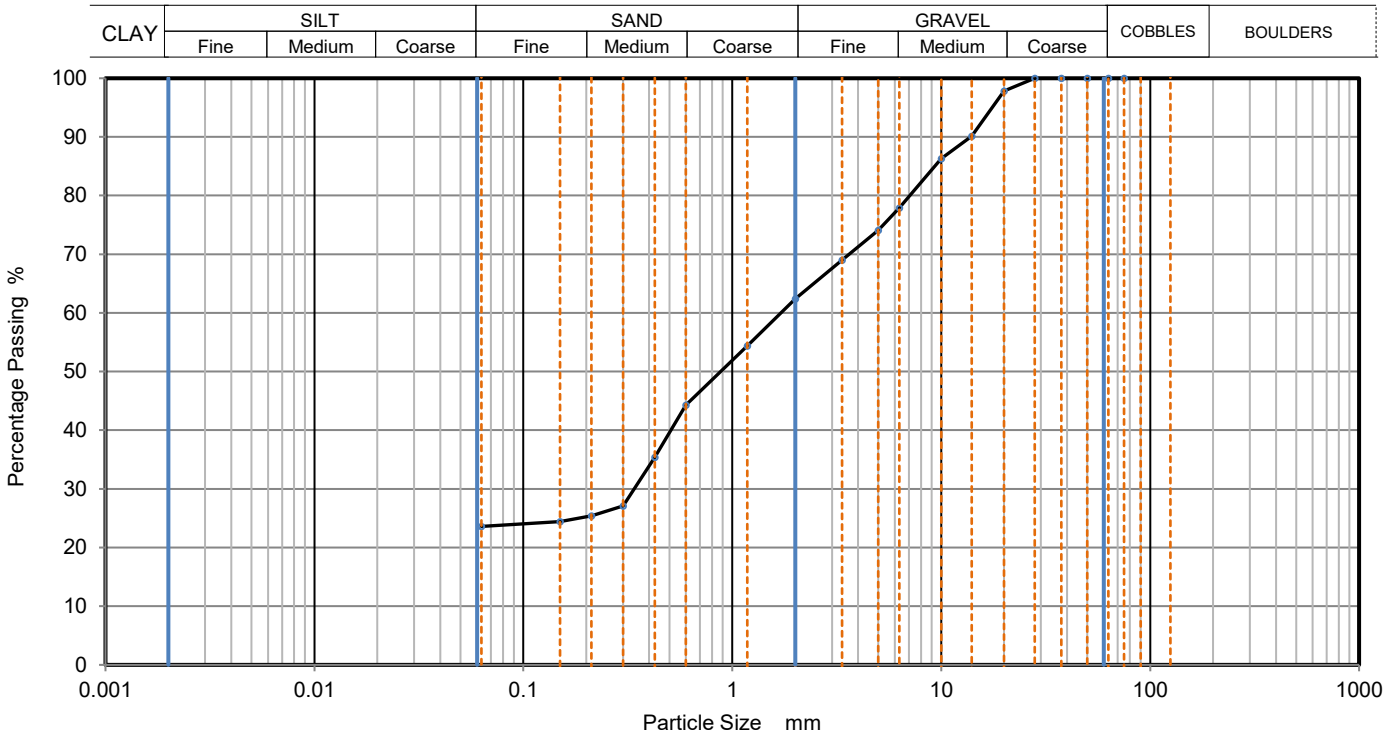
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T02
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown very silty m+c SAND and f+m GRAVEL.			Depth, m	0.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042474



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	90		
10	86		
6.3	78		
5	74		
3.35	69		
2	62		
1.18	54		
0.6	44		
0.425	35		
0.3	27		
0.212	25		
0.15	24		
0.063	24		

Dry Mass of sample, g	840

Sample Proportions	% dry mass
Very coarse	0
Gravel	38
Sand	39
Fines <0.063mm	24

Grading Analysis		
D100	mm	
D60	mm	1.7
D30	mm	0.339
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

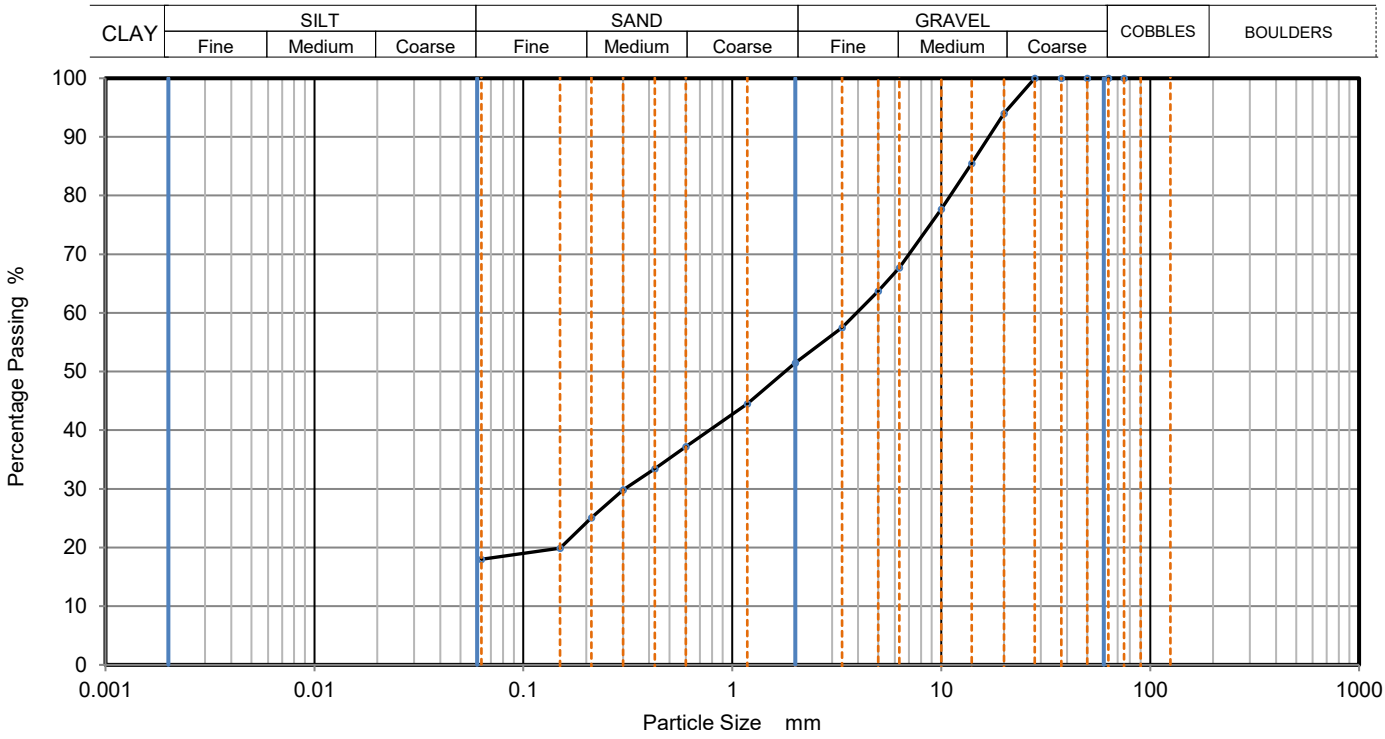
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T02
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Brown silty very sandy medium GRAVEL.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042477



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	94		
14	86		
10	78		
6.3	68		
5	64		
3.35	58		
2	52		
1.18	45		
0.6	37		
0.425	33		
0.3	30		
0.212	25		
0.15	20		
0.063	18		

Dry Mass of sample, g	909

Sample Proportions	% dry mass
Very coarse	0
Gravel	49
Sand	34
Fines <0.063mm	18

Grading Analysis		
D100	mm	
D60	mm	3.94
D30	mm	0.306
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

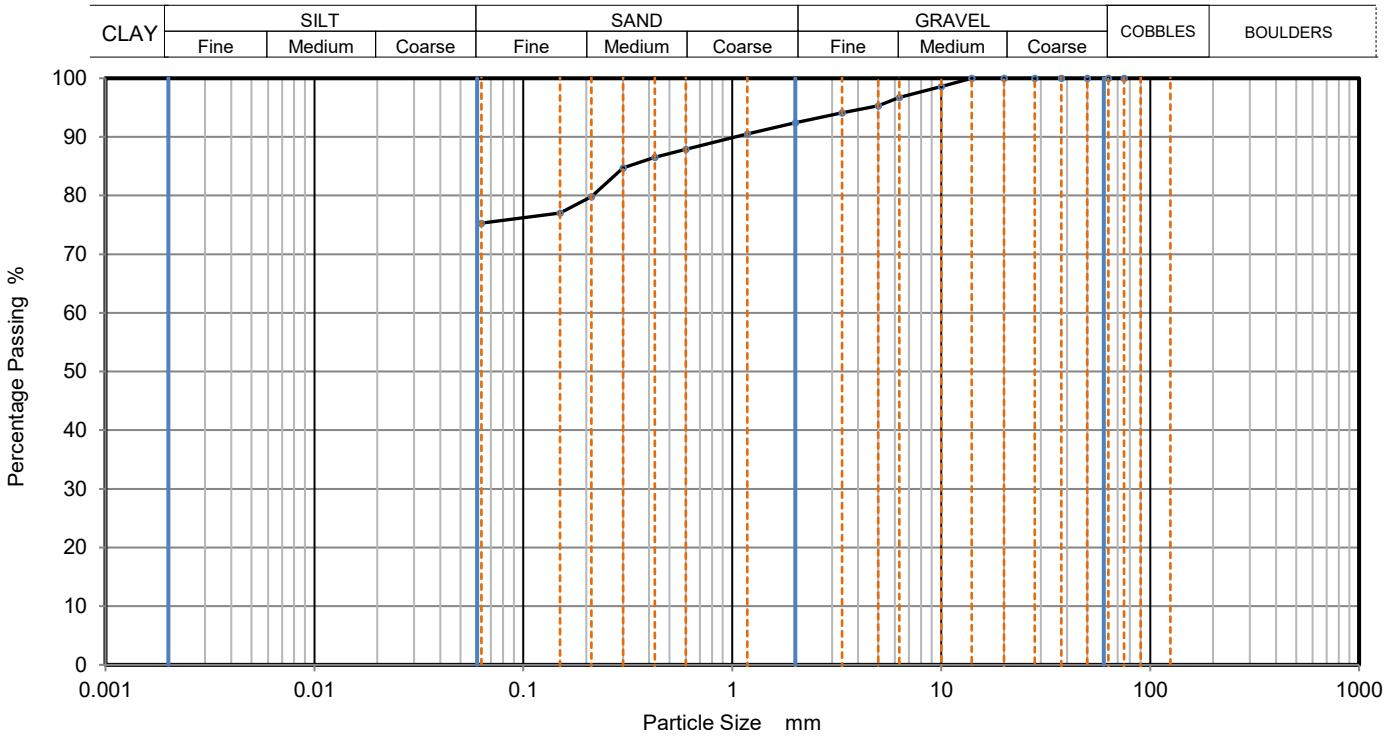
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T02
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Light brown slightly gravelly slightly sandy SILT.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042480



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	99		
6.3	97		
5	95		
3.35	94		
2	92		
1.18	91		
0.6	88		
0.425	87		
0.3	85		
0.212	80		
0.15	77		
0.063	75		

Dry Mass of sample, g	867

Sample Proportions	% dry mass
Very coarse	0
Gravel	8
Sand	17
Fines <0.063mm	75

Grading Analysis		
D100	mm	
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

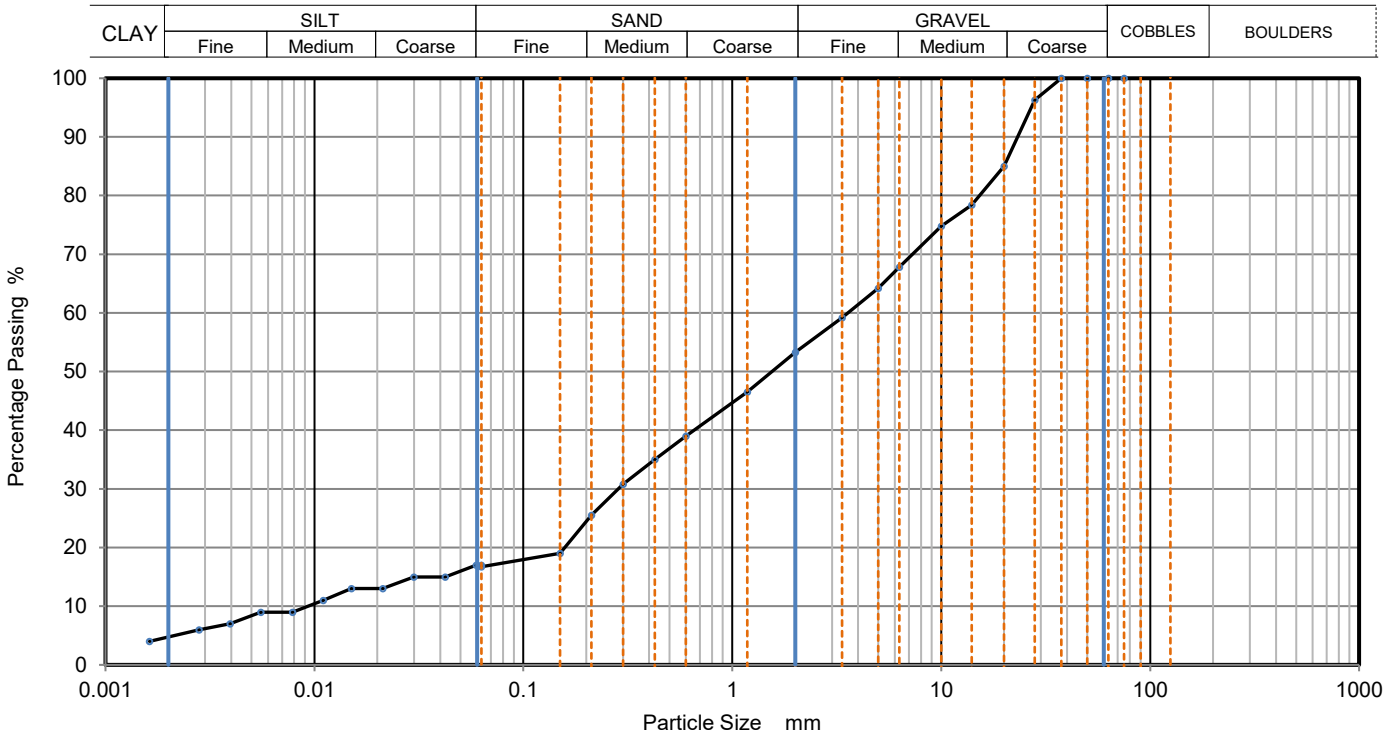
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T02
Site Name	Lot 1, Lough Talt			Sample No.	10
Soil Description	Light brown silty very sandy GRAVEL.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042483



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	17
		0.0595	17
75	100	0.0423	15
63	100	0.0299	15
50	100	0.0212	13
37.5	100	0.0150	13
28	96	0.0110	11
20	85	0.0078	9
14	78	0.0055	9
10	75	0.0039	7
6.3	68	0.0028	6
5	64	0.0016	4
3.35	59		
2	53		
1.18	47		
0.6	39	Particle density (assumed)	
0.425	35	2.65 Mg/m3	
0.3	31		
0.212	26		
0.15	19		
0.063	17		

Dry Mass of sample, g: 750

Sample Proportions	% dry mass
Very coarse	0
Gravel	47
Sand	37
Silt	12
Clay	4

Grading Analysis		
D100	mm	
D60	mm	3.58
D30	mm	0.284
D10	mm	0.00895
Uniformity Coefficient		400
Curvature Coefficient		2.5

Remarks

Preparation and testing in accordance with BS1377 unless noted below

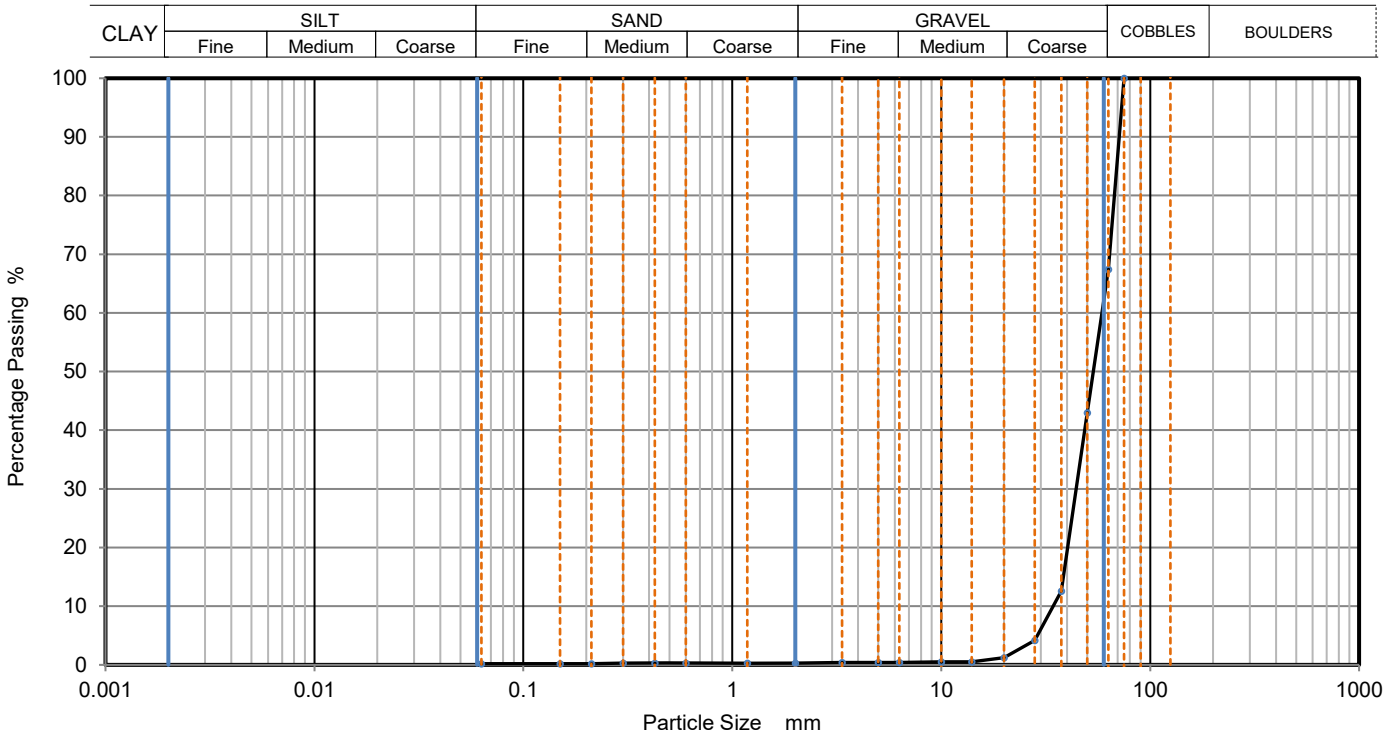
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T02
Site Name	Lot 1, Lough Talt			Sample No.	
Soil Description	Core: Bluish-grey coarse GRAVEL.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	C
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025050113



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	67		
50	43		
37.5	13		
28	4		
20	1		
14	1		
10	1		
6.3	0		
5	0		
3.35	0		
2	0		
1.18	0		
0.6	0		
0.425	0		
0.3	0		
0.212	0		
0.15	0		
0.063	0		

Dry Mass of sample, g	981

Sample Proportions	% dry mass
Very coarse	33
Gravel	67
Sand	0
Fines <0.063mm	0

Grading Analysis		
D100	mm	75
D60	mm	58.7
D30	mm	44.2
D10	mm	34.3
Uniformity Coefficient		1.7
Curvature Coefficient		0.97

Remarks

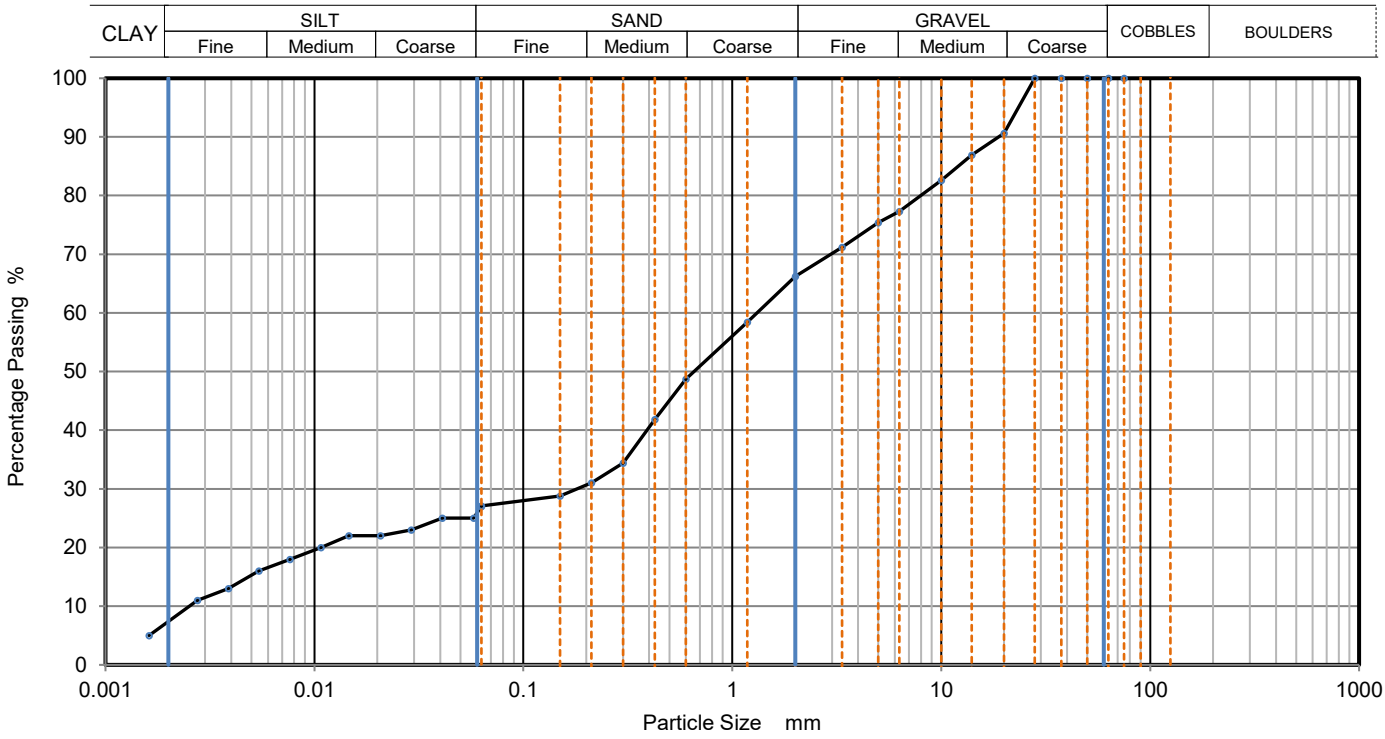
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T02
Site Name	Lot 1, Lough Talt			Sample No.	13
Soil Description	Greyish-light brown Greyish-brown slightly sandy gravelly SILT.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042486



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	27
		0.0578	25
75	100	0.0409	25
63	100	0.0291	23
50	100	0.0207	22
37.5	100	0.0146	22
28	100	0.0107	20
20	91	0.0076	18
14	87	0.0054	16
10	83	0.0039	13
6.3	77	0.0028	11
5	75	0.0016	5
3.35	71		
2	66		
1.18	58		
0.6	49	Particle density (assumed)	
0.425	42	2.65 Mg/m3	
0.3	34		
0.212	31		
0.15	29		
0.063	27		

Dry Mass of sample, g	784

Sample Proportions	% dry mass
Very coarse	0
Gravel	34
Sand	39
Silt	19
Clay	8

Grading Analysis		
D100	mm	
D60	mm	1.31
D30	mm	0.181
D10	mm	0.00254
Uniformity Coefficient		520
Curvature Coefficient		9.8

Remarks

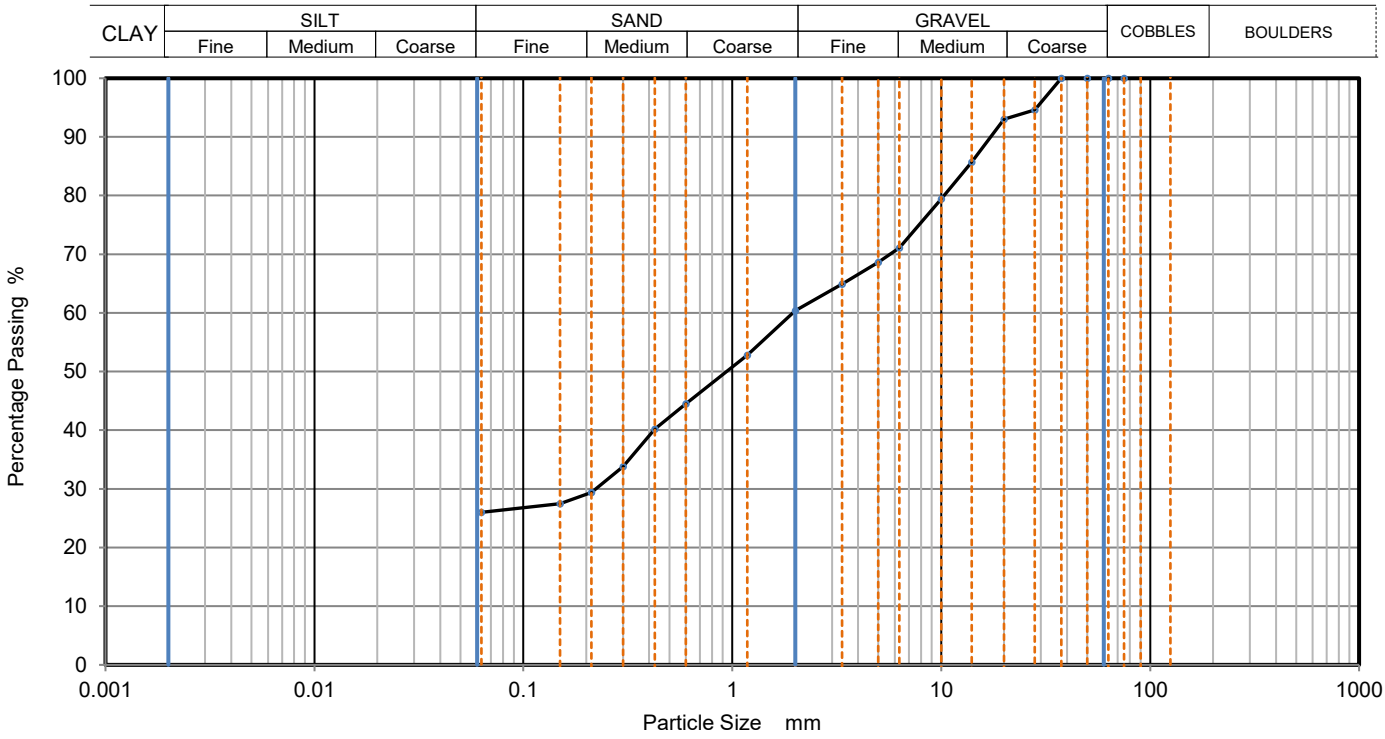
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T02
Site Name	Lot 1, Lough Talt			Sample No.	16
Soil Description	Greyish light brown very silty very sandy medium GRAVEL.			Depth, m	5.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042489



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	95		
20	93		
14	86		
10	79		
6.3	71		
5	69		
3.35	65		
2	60		
1.18	53		
0.6	45		
0.425	40		
0.3	34		
0.212	29		
0.15	28		
0.063	26		

Dry Mass of sample, g	754

Sample Proportions	% dry mass
Very coarse	0
Gravel	40
Sand	34
Fines <0.063mm	26

Grading Analysis		
D100	mm	
D60	mm	1.95
D30	mm	0.223
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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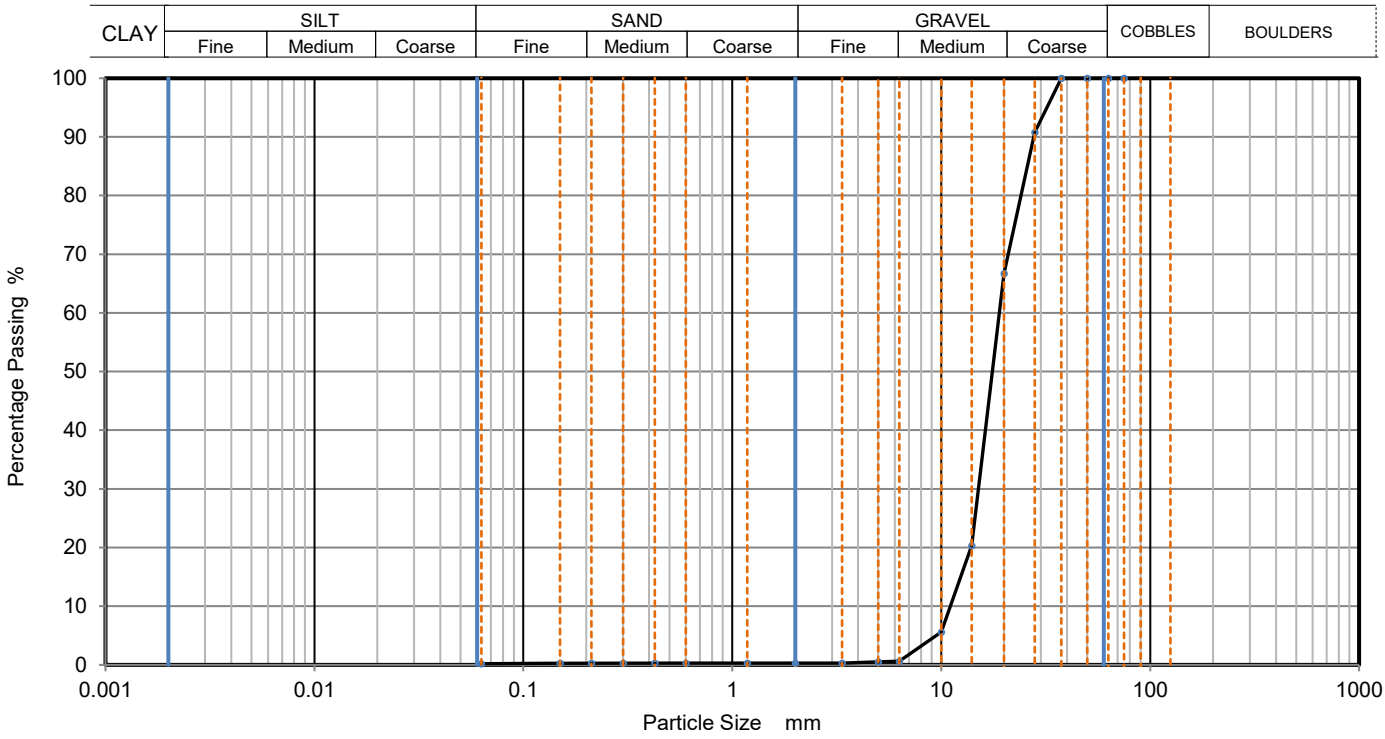
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T02
Site Name	Lot 1, Lough Talt			Sample No.	
Soil Description	Core: Bluish-grey medium GRAVEL.			Depth, m	6.50
Specimen Reference		Specimen Depth	m	Sample Type	C
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025050115



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	91		
20	67		
14	20		
10	6		
6.3	1		
5	1		
3.35	0		
2	0		
1.18	0		
0.6	0		
0.425	0		
0.3	0		
0.212	0		
0.15	0		
0.063	0		

Dry Mass of sample, g: 811

Sample Proportions	% dry mass
Very coarse	0
Gravel	100
Sand	0
Fines <0.063mm	0

Grading Analysis		
D100	mm	
D60	mm	19
D30	mm	15.1
D10	mm	11.1
Uniformity Coefficient		1.7
Curvature Coefficient		1.1

Remarks

Preparation and testing in accordance with BS1377 unless noted below

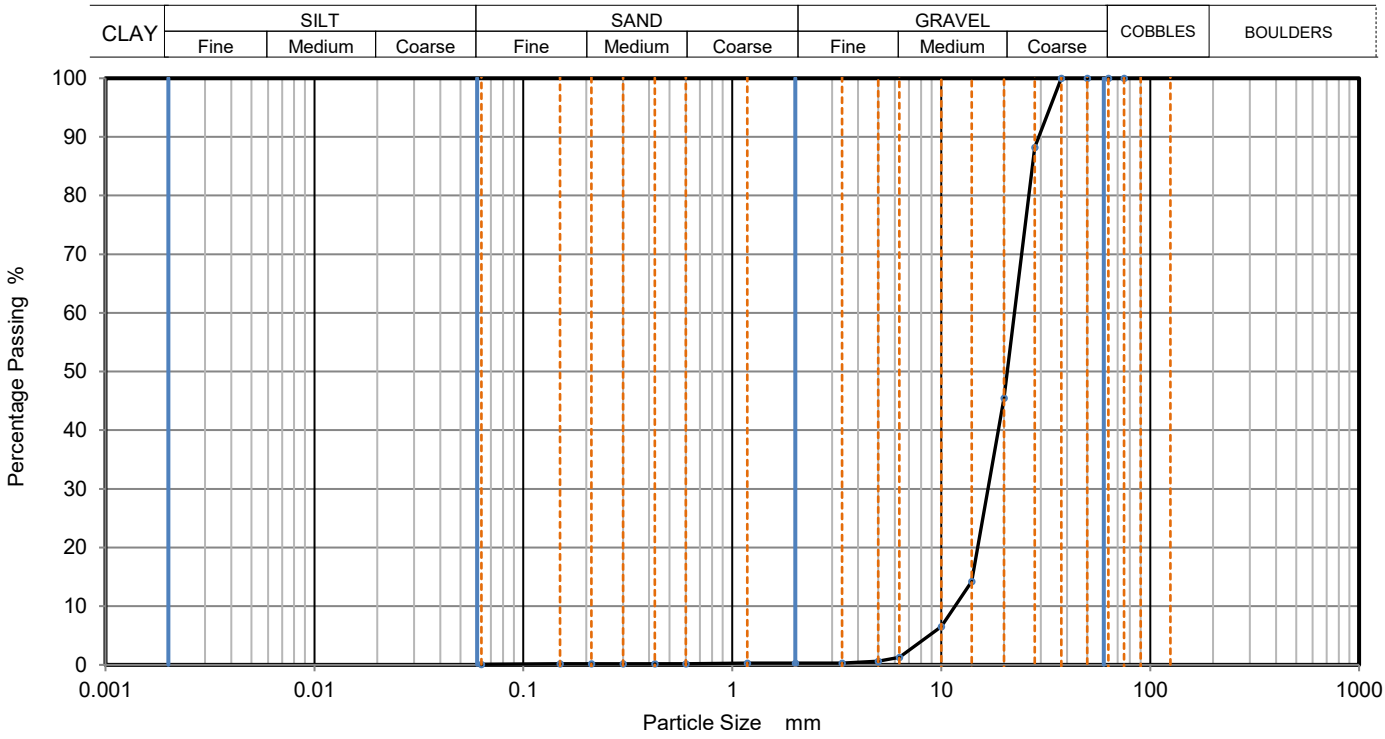
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-T03
Site Name	Lot 1, Lough Talt			Sample No.	
Soil Description	Core: Bluish-grey medium and coarse GRAVEL.			Depth, m	0.00
Specimen Reference		Specimen Depth	m	Sample Type	C
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025050119



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	88		
20	46		
14	14		
10	7		
6.3	1		
5	1		
3.35	0		
2	0		
1.18	0		
0.6	0		
0.425	0		
0.3	0		
0.212	0		
0.15	0		
0.063	0		

Dry Mass of sample, g	851

Sample Proportions	% dry mass
Very coarse	0
Gravel	100
Sand	0
Fines <0.063mm	0

Grading Analysis		
D100	mm	
D60	mm	22.4
D30	mm	16.8
D10	mm	11.7
Uniformity Coefficient		1.9
Curvature Coefficient		1.1

Remarks

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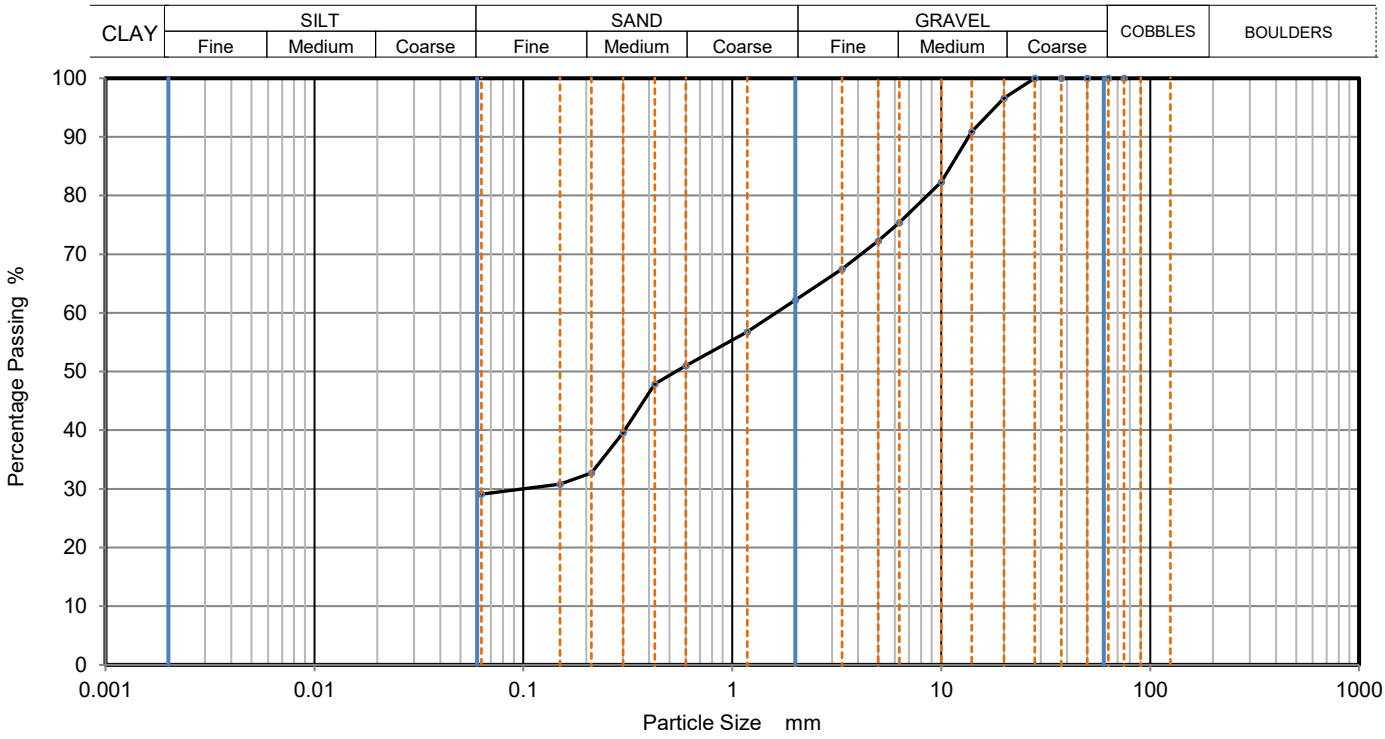
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-WH02A
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Grey very silty medium SAND and medium GRAVEL.			Depth, m	1.00
Specimen Reference		Specimen Depth	m	Sample Type	D
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202503034



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	91		
10	82		
6.3	75		
5	72		
3.35	68		
2	62		
1.18	57		
0.6	51		
0.425	48		
0.3	40		
0.212	33		
0.15	31		
0.063	29		

Dry Mass of sample, g	549

Sample Proportions	% dry mass
Very coarse	0
Gravel	38
Sand	33
Fines <0.063mm	29

Grading Analysis		
D100	mm	
D60	mm	1.61
D30	mm	0.0979
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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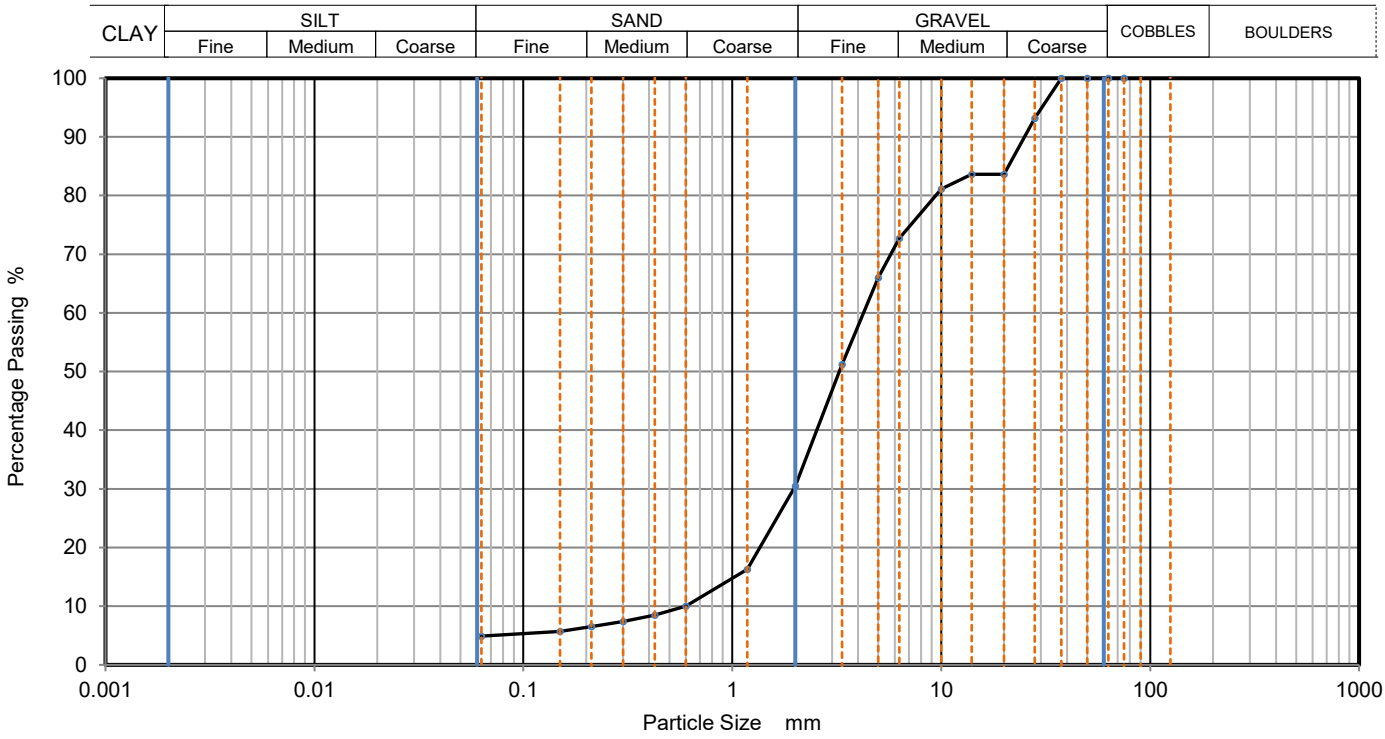
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	BH-WH02A
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Blusih-grey slightly sandy slightly silty medium GRAVEL.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202503039



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	93		
20	84		
14	84		
10	81		
6.3	73		
5	66		
3.35	51		
2	31		
1.18	16		
0.6	10		
0.425	9		
0.3	7		
0.212	7		
0.15	6		
0.063	5		

Dry Mass of sample, g	797

Sample Proportions	% dry mass
Very coarse	0
Gravel	70
Sand	26
Fines <0.063mm	5

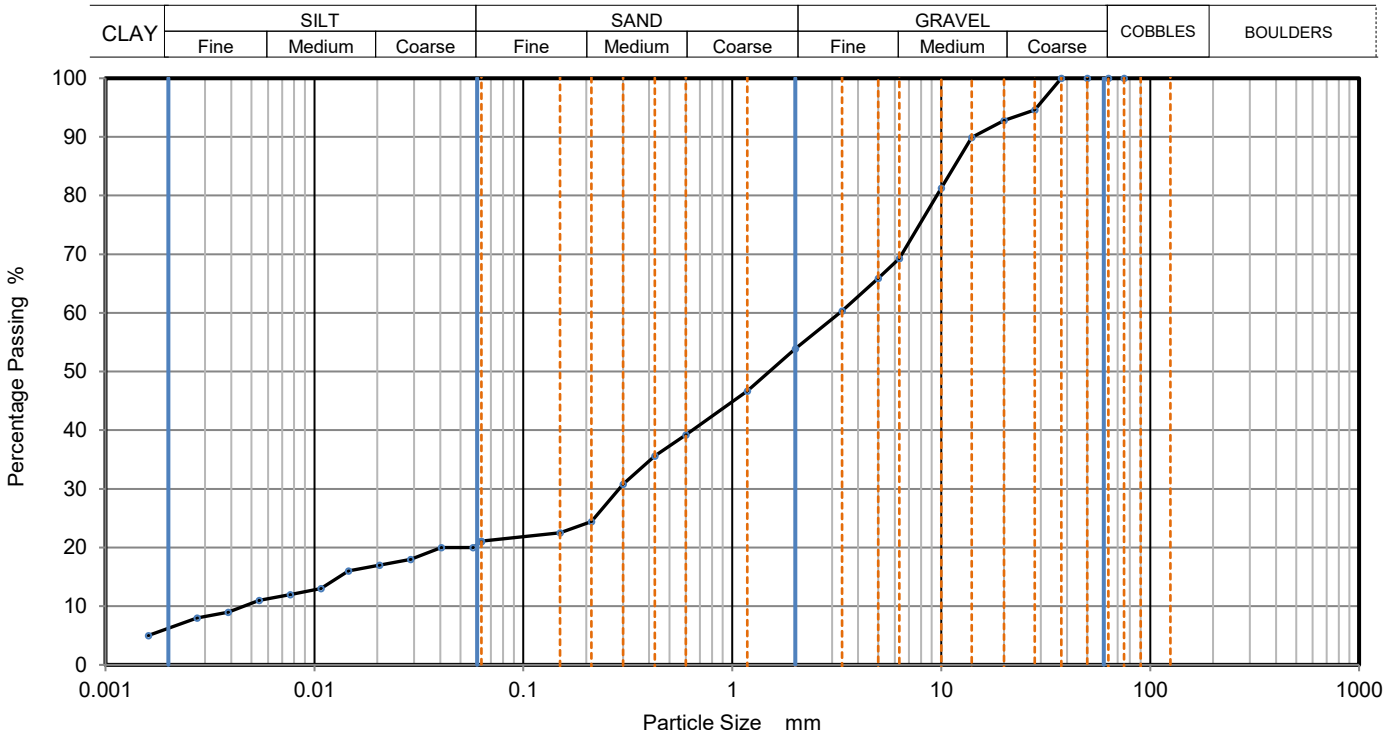
Grading Analysis		
D100	mm	
D60	mm	4.25
D30	mm	1.96
D10	mm	0.603
Uniformity Coefficient		7.1
Curvature Coefficient		1.5

Remarks

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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	BH-WH1
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark brown very silty very sandy medium GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025021387



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	21
		0.0573	20
75	100	0.0405	20
63	100	0.0288	18
50	100	0.0205	17
37.5	100	0.0146	16
28	95	0.0108	13
20	93	0.0076	12
14	90	0.0054	11
10	81	0.0039	9
6.3	69	0.0027	8
5	66	0.0016	5
3.35	60		
2	54		
1.18	47		
0.6	39	Particle density (assumed)	
0.425	36	2.65	Mg/m3
0.3	31		
0.212	24		
0.15	23		
0.063	21		

Dry Mass of sample, g	628

Sample Proportions	% dry mass
Very coarse	0
Gravel	46
Sand	33
Silt	15
Clay	6

Grading Analysis		
D100	mm	
D60	mm	3.28
D30	mm	0.287
D10	mm	0.00472
Uniformity Coefficient		700
Curvature Coefficient		5.3

Remarks

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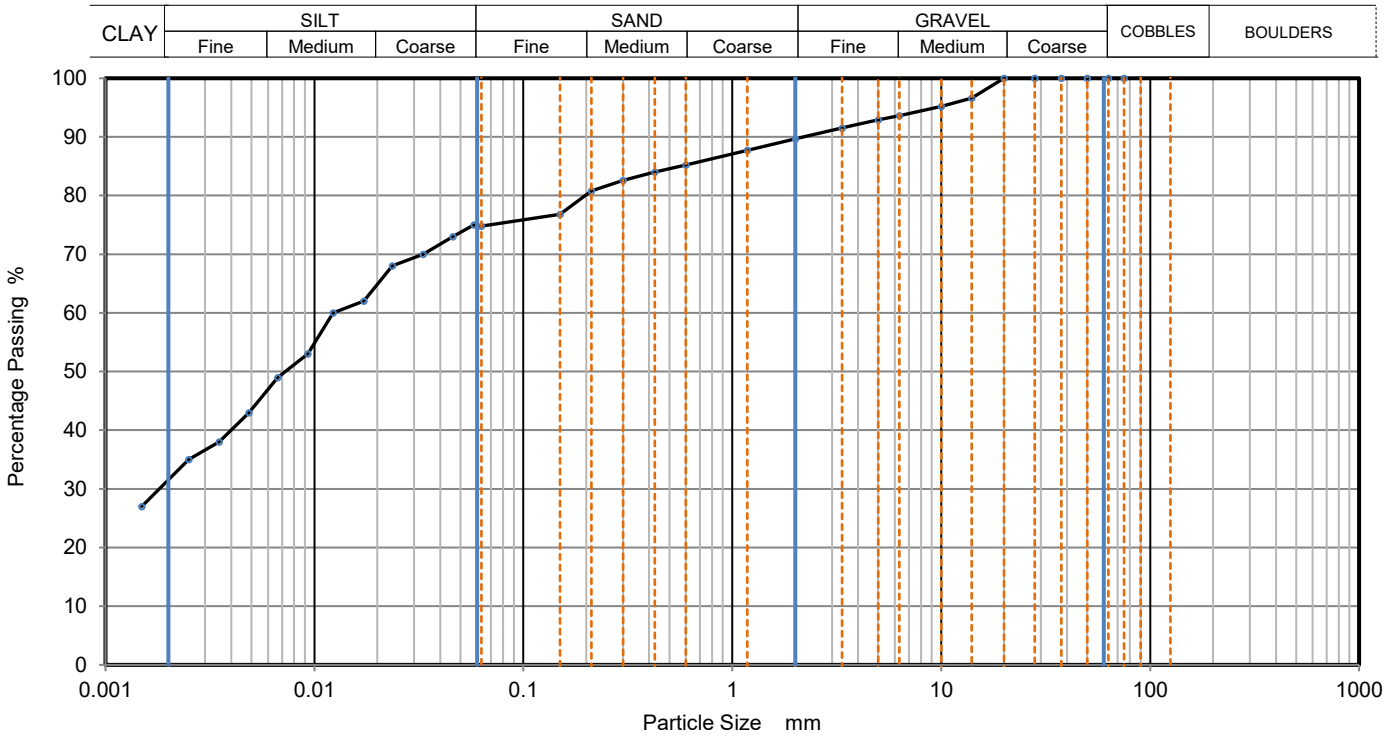
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG1
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025021393



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0580	75
		0.0460	73
75	100	0.0331	70
63	100	0.0236	68
50	100	0.0172	62
37.5	100	0.0123	60
28	100	0.0093	53
20	100	0.0067	49
14	97	0.0049	43
10	95	0.0035	38
6.3	94	0.0025	35
5	93	0.0015	27
3.35	92		
2	90		
1.18	88		
0.6	85	Particle density (assumed)	
0.425	84	2.65 Mg/m3	
0.3	83		
0.212	81		
0.15	77		
0.063	75		

Dry Mass of sample, g: 617

Sample Proportions	% dry mass
Very coarse	0
Gravel	10
Sand	15
Silt	43
Clay	32

Grading Analysis		
D100	mm	
D60	mm	0.0121
D30	mm	0.00181
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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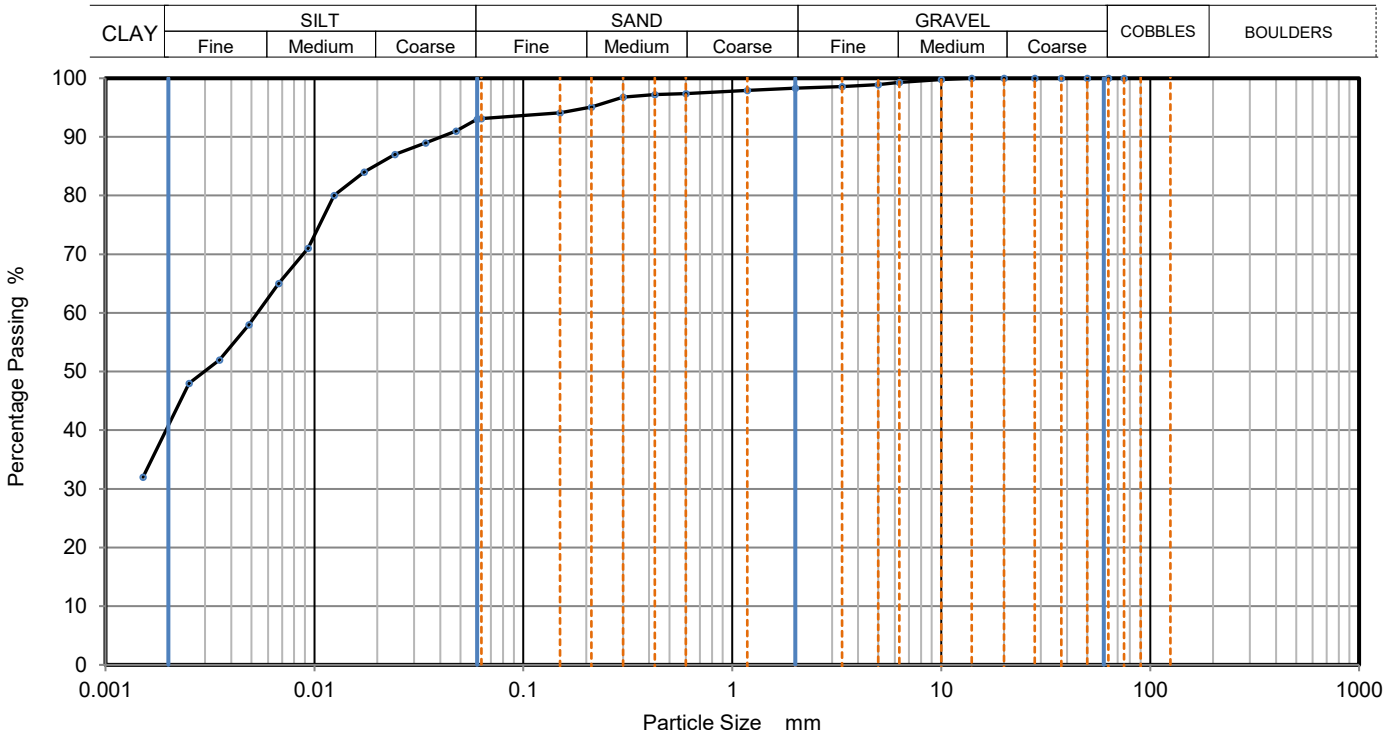
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG1
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown slightly gravelly slightly sandy SILT.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025021395



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0601	93
		0.0477	91
75	100	0.0340	89
63	100	0.0242	87
50	100	0.0173	84
37.5	100	0.0124	80
28	100	0.0093	71
20	100	0.0067	65
14	100	0.0049	58
10	100	0.0035	52
6.3	99	0.0025	48
5	99	0.0015	32
3.35	99		
2	98		
1.18	98		
0.6	97	Particle density (assumed)	
0.425	97	2.65 Mg/m3	
0.3	97		
0.212	95		
0.15	94		
0.063	93		

Dry Mass of sample, g	620

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	5
Silt	52
Clay	41

Grading Analysis		
D100	mm	
D60	mm	0.00526
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

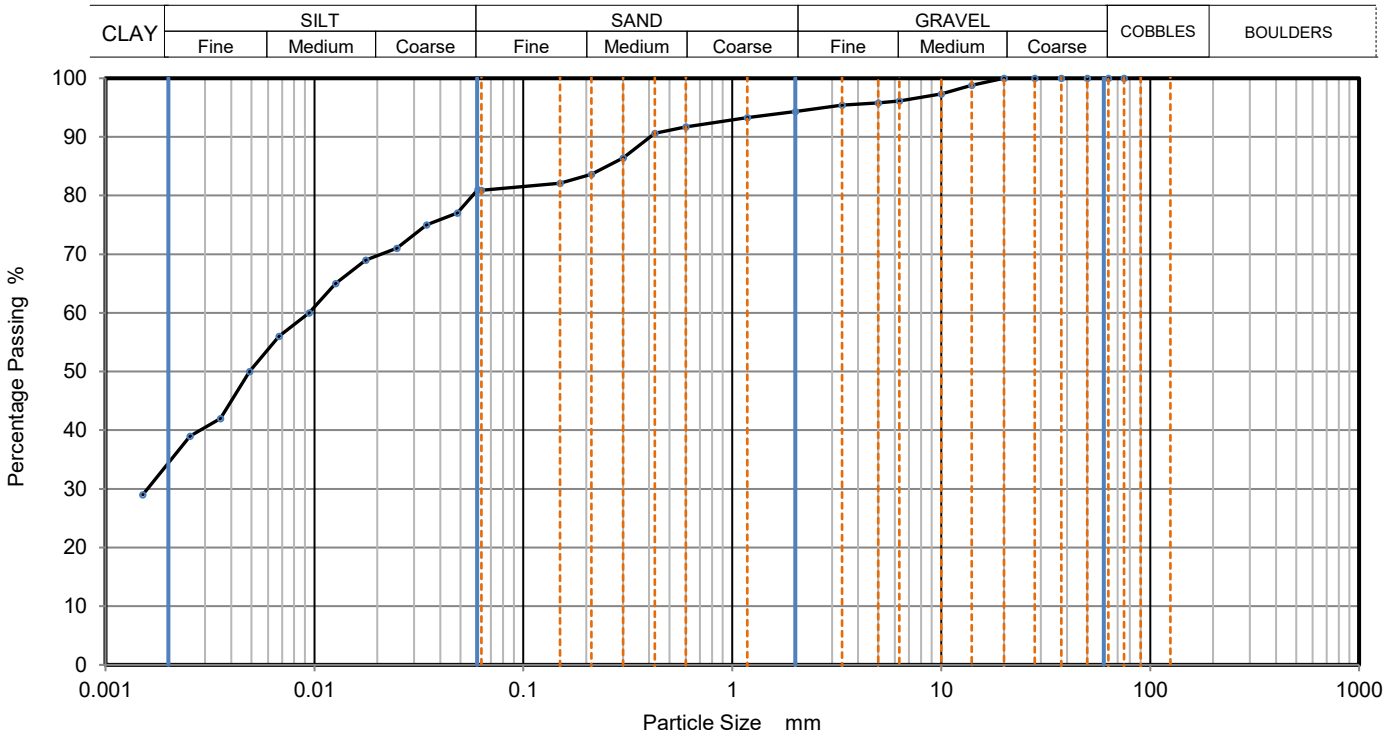
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG1
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Light brown slightly gravelly slightly sandy SILT.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025021397



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0606	81
		0.0484	77
75	100	0.0345	75
63	100	0.0248	71
50	100	0.0176	69
37.5	100	0.0127	65
28	100	0.0094	60
20	100	0.0068	56
14	99	0.0049	50
10	97	0.0035	42
6.3	96	0.0025	39
5	96	0.0015	29
3.35	95		
2	94		
1.18	93		
0.6	92	Particle density (assumed)	
0.425	91	2.65 Mg/m3	
0.3	86		
0.212	84		
0.15	82		
0.063	81		

Dry Mass of sample, g	582

Sample Proportions	% dry mass
Very coarse	0
Gravel	6
Sand	14
Silt	47
Clay	34

Grading Analysis		
D100	mm	
D60	mm	0.00958
D30	mm	0.0016
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

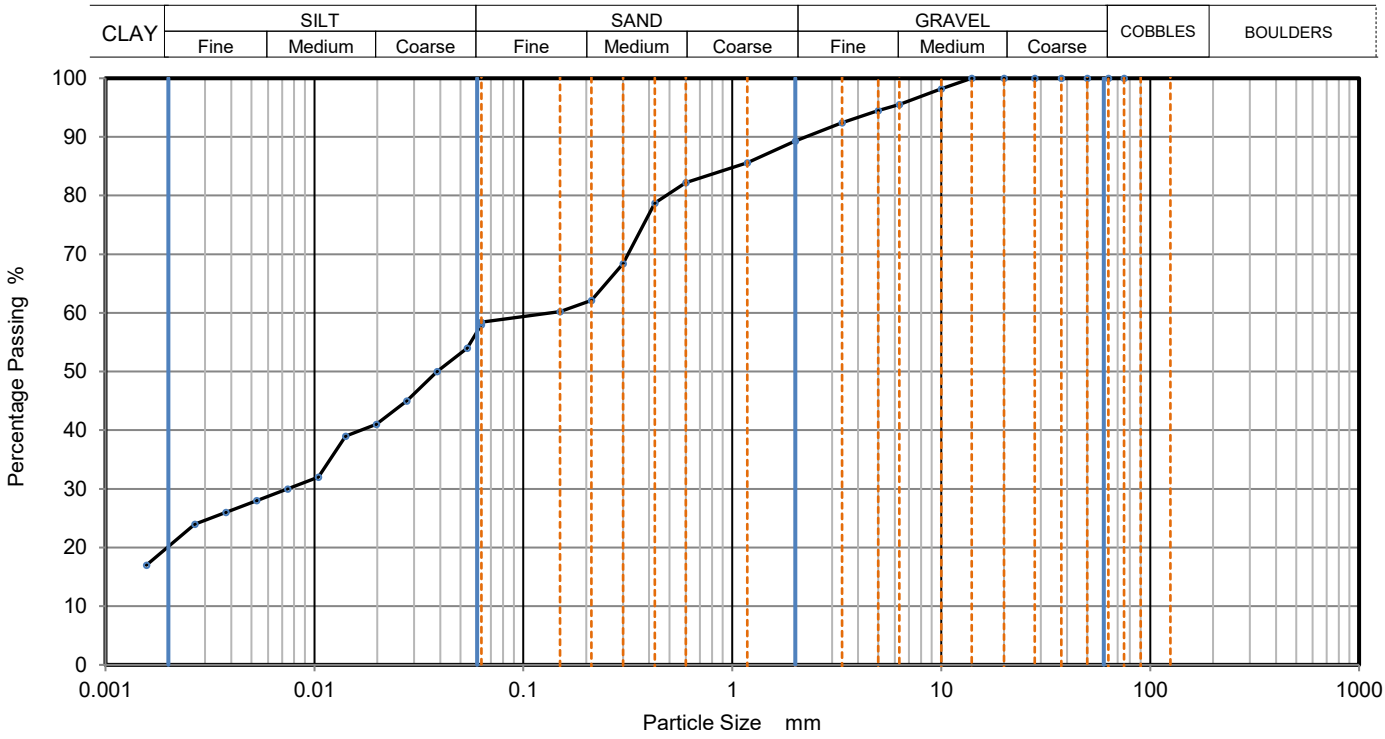
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG10
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown slightly gravelly slightly sandy SILT. Sand is medium.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025022581



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	58
		0.0539	54
75	100	0.0386	50
63	100	0.0276	45
50	100	0.0198	41
37.5	100	0.0141	39
28	100	0.0105	32
20	100	0.0074	30
14	100	0.0053	28
10	98	0.0038	26
6.3	96	0.0027	24
5	95	0.0016	17
3.35	92		
2	89		
1.18	86		
0.6	82	Particle density (assumed)	
0.425	79	2.65	Mg/m3
0.3	68		
0.212	62		
0.15	60		
0.063	58		

Dry Mass of sample, g	488

Sample Proportions	% dry mass
Very coarse	0
Gravel	11
Sand	31
Silt	38
Clay	20

Grading Analysis		
D100	mm	
D60	mm	0.139
D30	mm	0.00712
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

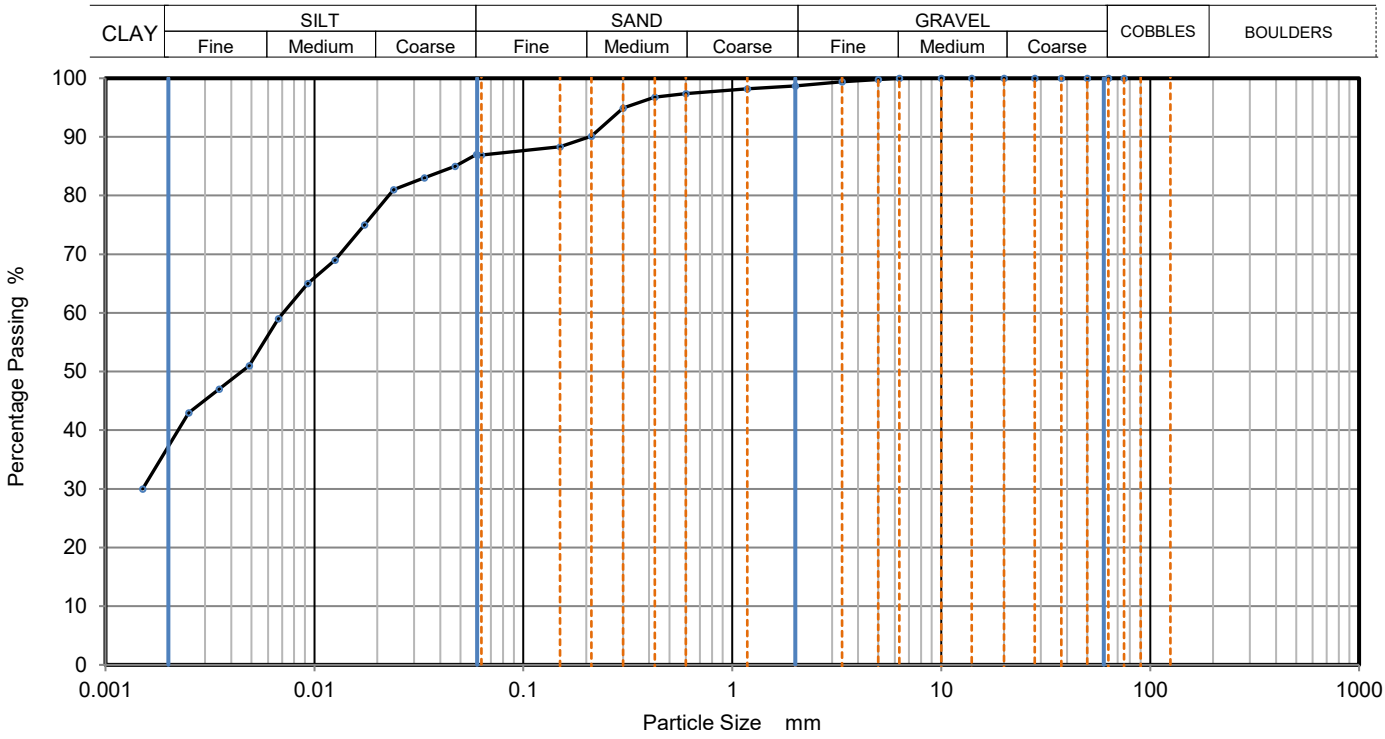
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				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG2
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Orangish-light-brown slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025021190



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0596	87
		0.0471	85
75	100	0.0336	83
63	100	0.0240	81
50	100	0.0173	75
37.5	100	0.0125	69
28	100	0.0093	65
20	100	0.0067	59
14	100	0.0049	51
10	100	0.0035	47
6.3	100	0.0025	43
5	100	0.0015	30
3.35	99		
2	99		
1.18	98		
0.6	97	Particle density (assumed)	
0.425	97	2.65 Mg/m3	
0.3	95		
0.212	90		
0.15	88		
0.063	87		

Dry Mass of sample, g	592

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	12
Silt	50
Clay	37

Grading Analysis		
D100	mm	
D60	mm	0.007
D30	mm	0.00153
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

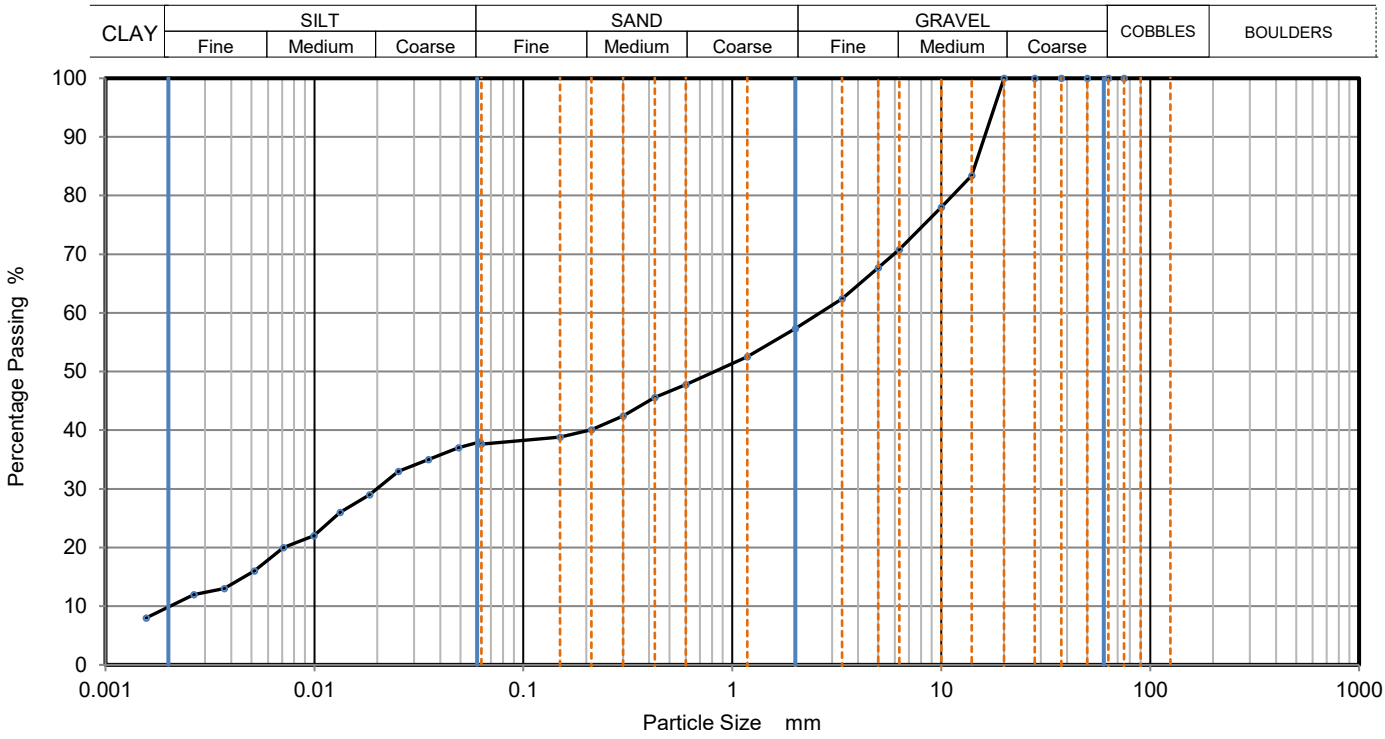
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG2
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Grey slightly sandy gravelly SILT.			Depth, m	1.80
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025021192



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0621	38
		0.0490	37
75	100	0.0352	35
63	100	0.0253	33
50	100	0.0184	29
37.5	100	0.0133	26
28	100	0.0099	22
20	100	0.0071	20
14	83	0.0052	16
10	78	0.0037	13
6.3	71	0.0027	12
5	68	0.0016	8
3.35	62		
2	57		
1.18	53		
0.6	48	Particle density (assumed)	
0.425	46	2.65	Mg/m3
0.3	42		
0.212	40		
0.15	39		
0.063	38		

Dry Mass of sample, g	866

Sample Proportions	% dry mass
Very coarse	0
Gravel	43
Sand	20
Silt	28
Clay	10

Grading Analysis		
D100	mm	
D60	mm	2.63
D30	mm	0.0201
D10	mm	0.00214
Uniformity Coefficient		1200
Curvature Coefficient		0.072

Remarks

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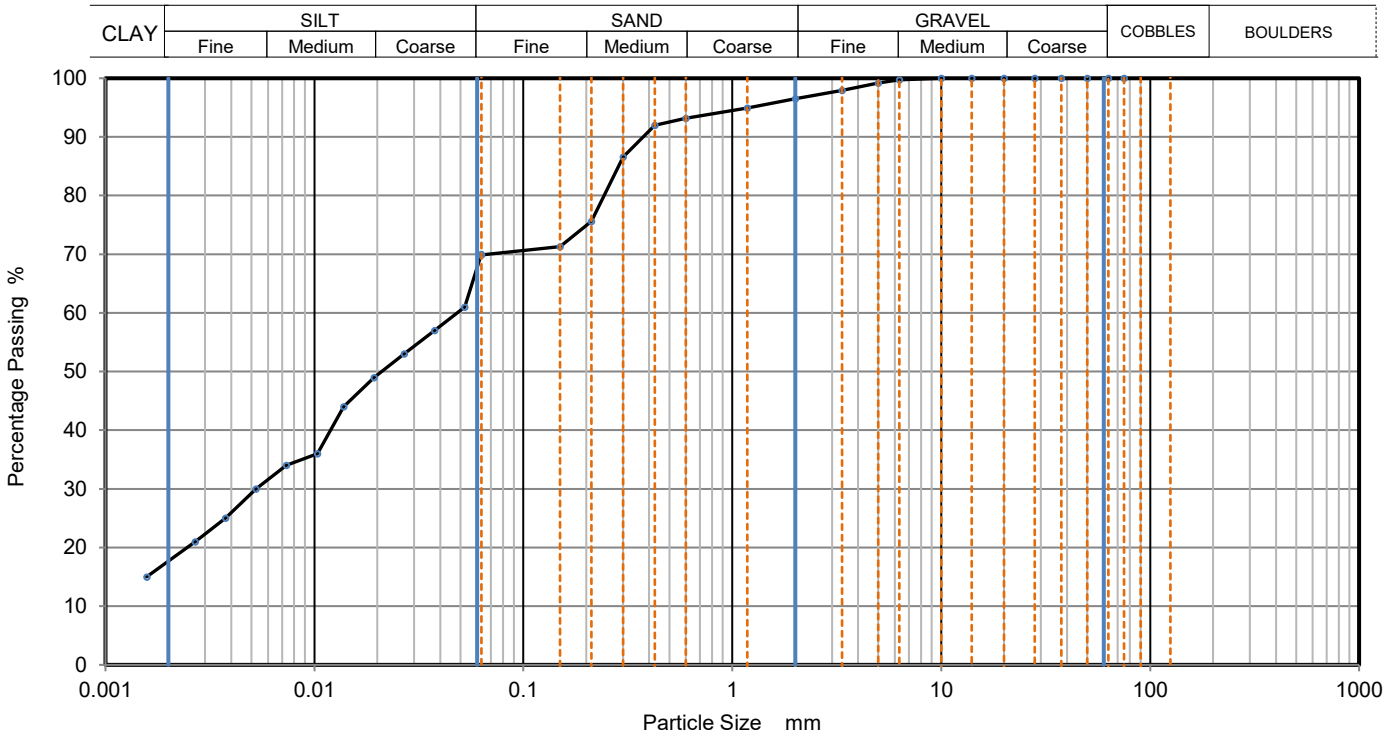
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG4
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Bark brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025021197



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	70
		0.0524	61
75	100	0.0375	57
63	100	0.0269	53
50	100	0.0193	49
37.5	100	0.0138	44
28	100	0.0103	36
20	100	0.0073	34
14	100	0.0052	30
10	100	0.0038	25
6.3	100	0.0027	21
5	99	0.0016	15
3.35	98		
2	97		
1.18	95		
0.6	93	Particle density (assumed)	
0.425	92	2.65	Mg/m3
0.3	87		
0.212	76		
0.15	71		
0.063	70		

Dry Mass of sample, g	705

Sample Proportions	% dry mass
Very coarse	0
Gravel	4
Sand	27
Silt	52
Clay	18

Grading Analysis		
D100	mm	
D60	mm	0.0468
D30	mm	0.00539
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

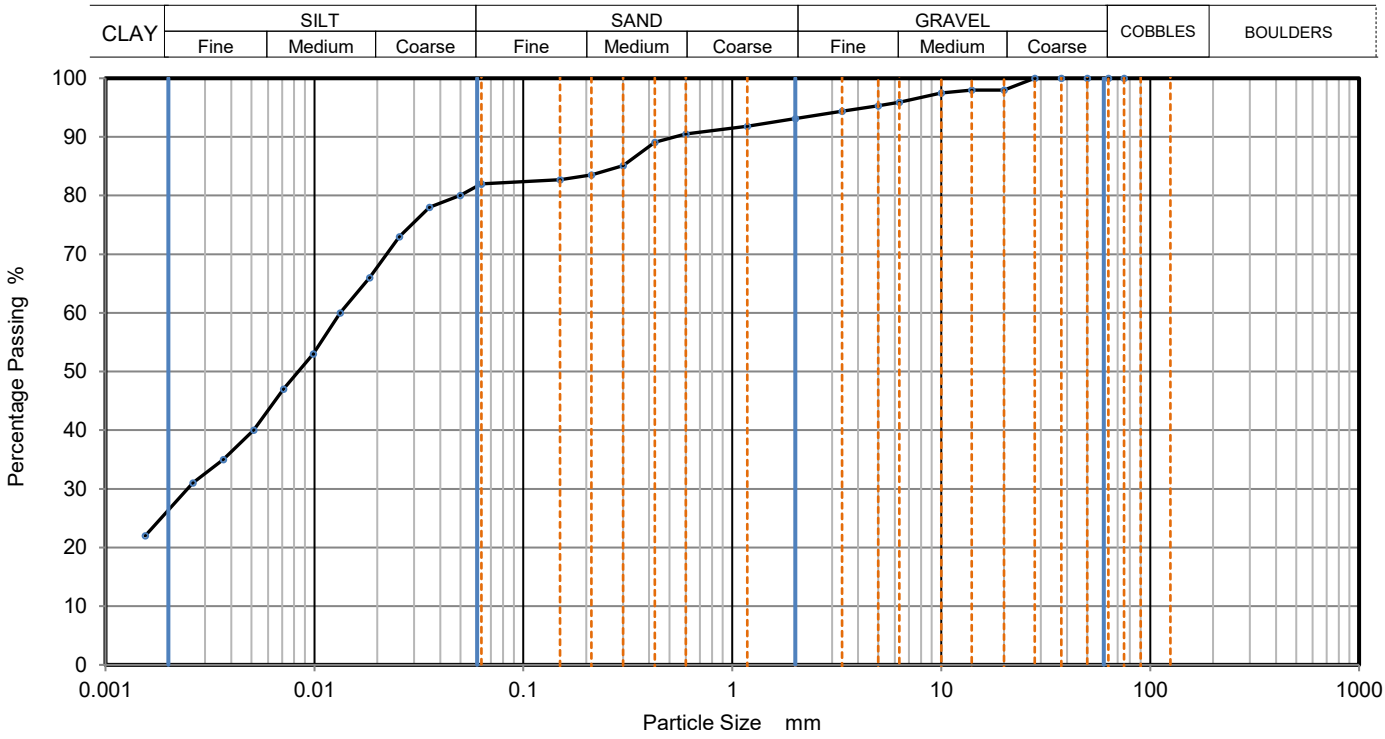
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG4
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Dark brown slightly gravelly slightly sandy SILT.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025021199



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	82
		0.0498	80
75	100	0.0355	78
63	100	0.0255	73
50	100	0.0184	66
37.5	100	0.0133	60
28	100	0.0099	53
20	98	0.0071	47
14	98	0.0051	40
10	98	0.0037	35
6.3	96	0.0026	31
5	95	0.0015	22
3.35	94		
2	93		
1.18	92		
0.6	91	Particle density (assumed)	
0.425	89	2.65 Mg/m3	
0.3	85		
0.212	84		
0.15	83		
0.063	82		

Dry Mass of sample, g	731

Sample Proportions	% dry mass
Very coarse	0
Gravel	7
Sand	11
Silt	56
Clay	27

Grading Analysis		
D100	mm	
D60	mm	0.0134
D30	mm	0.00247
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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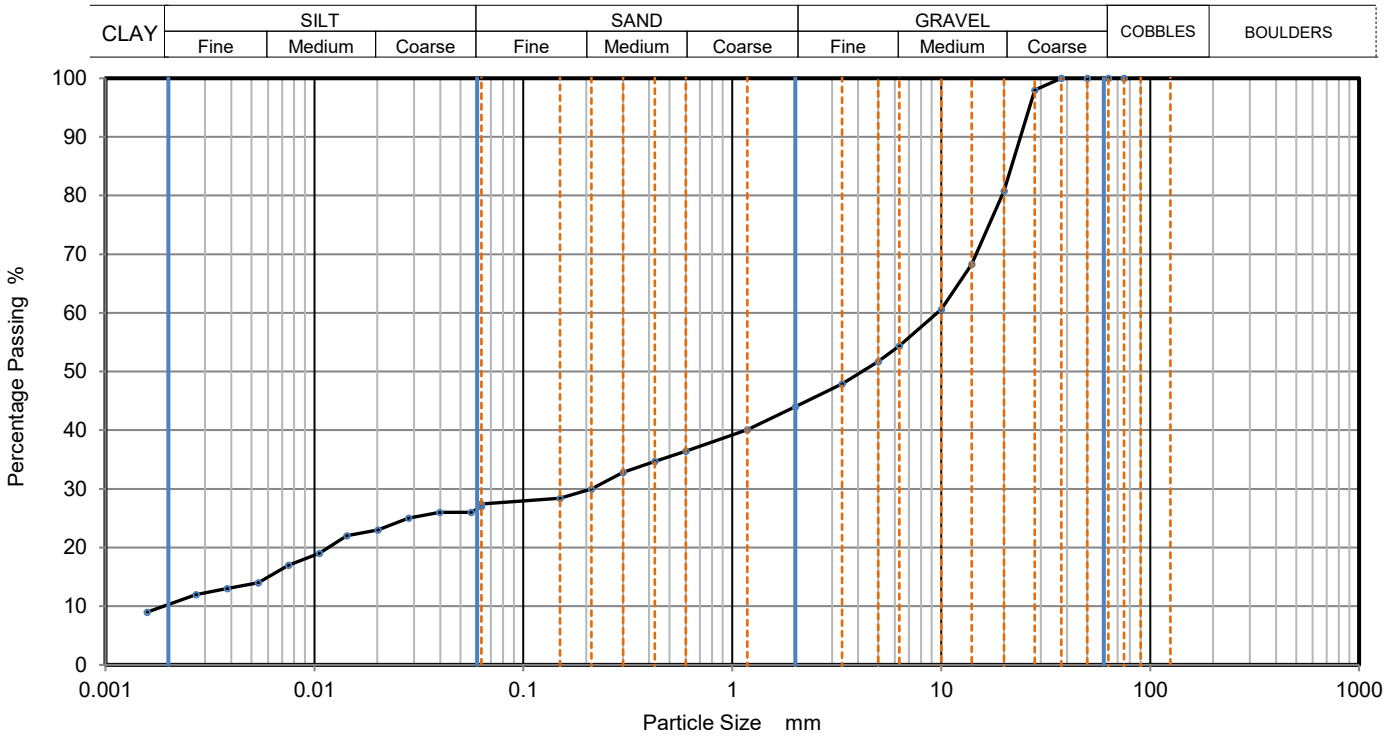
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG5
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown sandy very silty medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250211101



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	27
		0.0562	26
75	100	0.0398	26
63	100	0.0283	25
50	100	0.0201	23
37.5	100	0.0143	22
28	98	0.0106	19
20	81	0.0075	17
14	68	0.0054	14
10	61	0.0038	13
6.3	54	0.0027	12
5	52	0.0016	9
3.35	48		
2	44		
1.18	40		
0.6	36	Particle density (assumed)	
0.425	35	2.65 Mg/m3	
0.3	33		
0.212	30		
0.15	28		
0.063	27		

Dry Mass of sample, g	989

Sample Proportions	% dry mass
Very coarse	0
Gravel	56
Sand	17
Silt	18
Clay	10

Grading Analysis		
D100	mm	
D60	mm	9.56
D30	mm	0.21
D10	mm	0.00204
Uniformity Coefficient		4700
Curvature Coefficient		2.3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

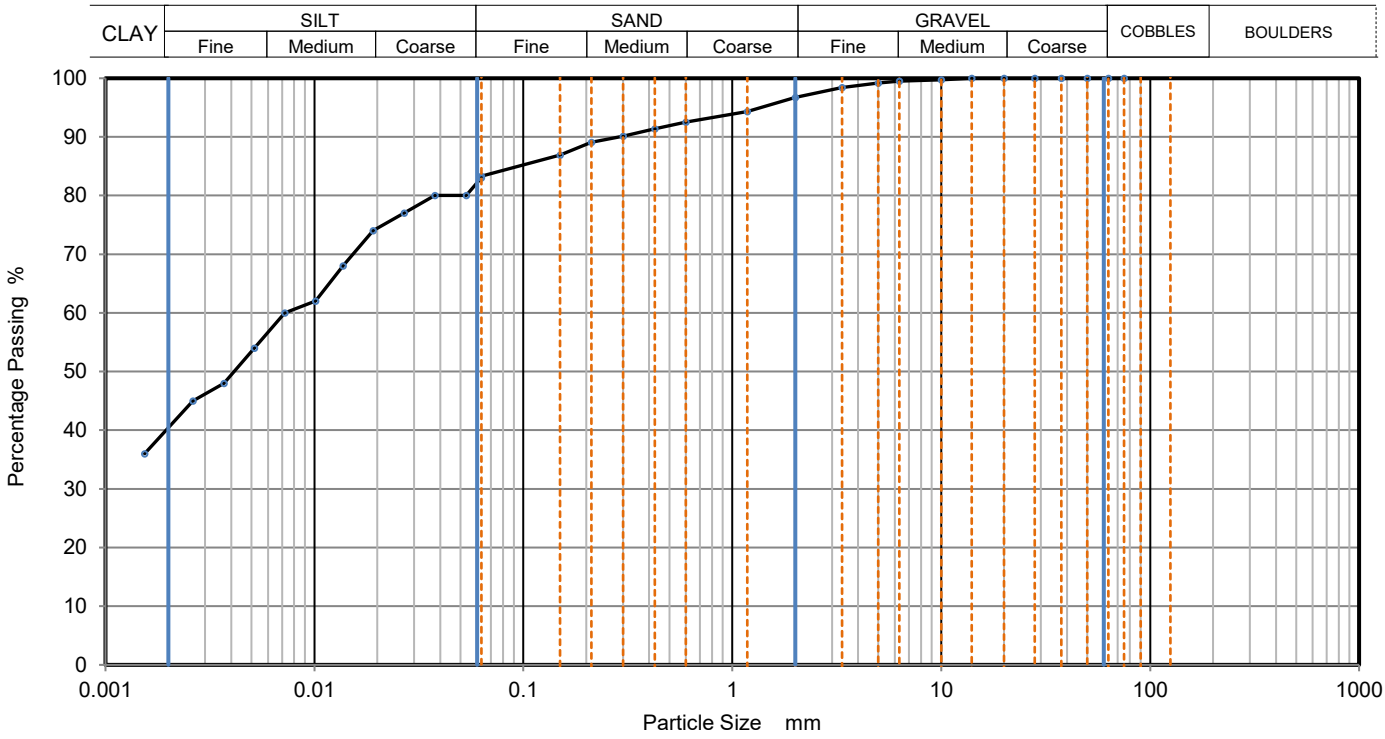
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG5
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown slightly gravelly slightly sandy SILT.			Depth, m	1.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250211103



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	83
		0.0533	80
75	100	0.0377	80
63	100	0.0269	77
50	100	0.0191	74
37.5	100	0.0137	68
28	100	0.0101	62
20	100	0.0072	60
14	100	0.0052	54
10	100	0.0037	48
6.3	100	0.0026	45
5	99	0.0015	36
3.35	98		
2	97		
1.18	94		
0.6	93	Particle density (assumed)	
0.425	91	2.65 Mg/m3	
0.3	90		
0.212	89		
0.15	87		
0.063	83		

Dry Mass of sample, g: 779

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	13
Silt	43
Clay	40

Grading Analysis		
D100	mm	
D60	mm	0.00762
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

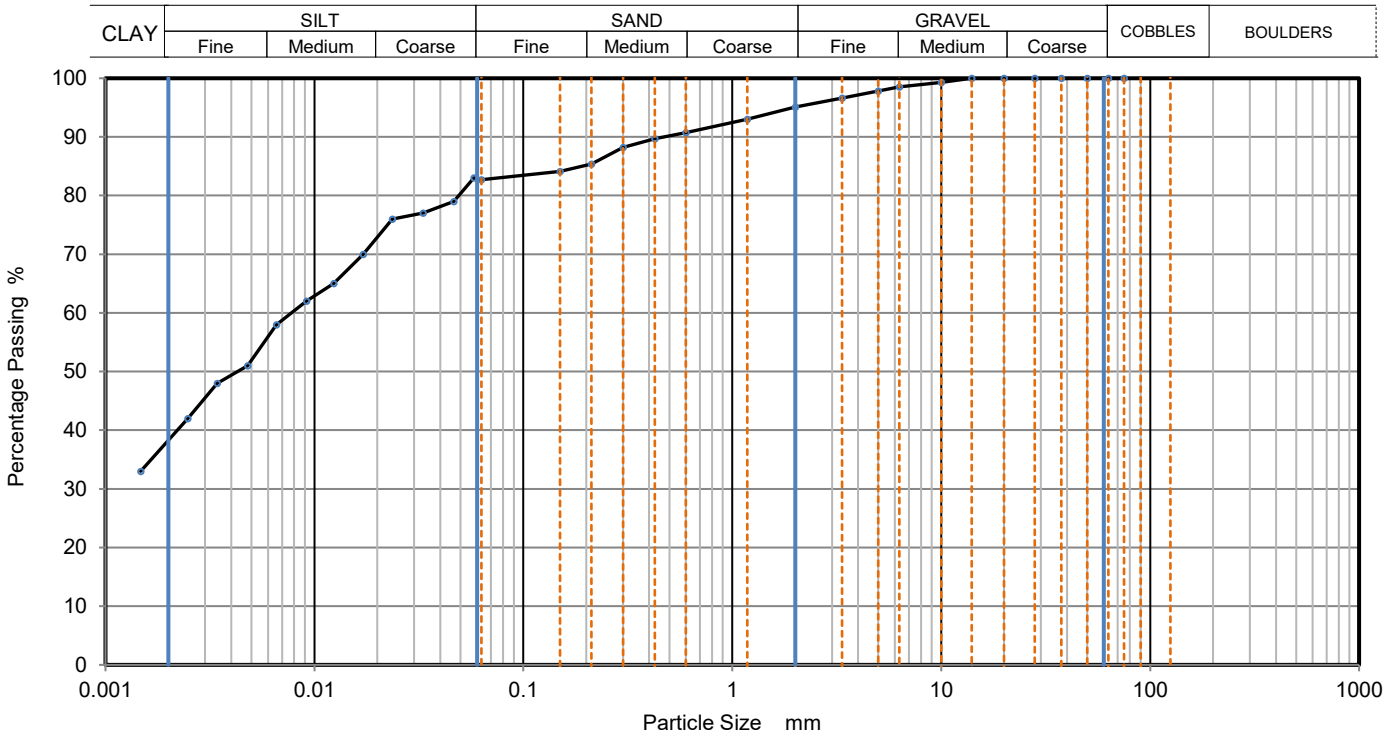
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG5
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Greyish-orange-brown slightly gravelly slightly sandy SILT.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250211105



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0580	83
		0.0464	79
75	100	0.0331	77
63	100	0.0236	76
50	100	0.0171	70
37.5	100	0.0124	65
28	100	0.0092	62
20	100	0.0066	58
14	100	0.0048	51
10	99	0.0034	48
6.3	99	0.0025	42
5	98	0.0015	33
3.35	97		
2	95		
1.18	93		
0.6	91	Particle density (assumed)	
0.425	90	2.65 Mg/m3	
0.3	88		
0.212	85		
0.15	84		
0.063	83		

Dry Mass of sample, g	624

Sample Proportions	% dry mass
Very coarse	0
Gravel	5
Sand	12
Silt	44
Clay	39

Grading Analysis		
D100	mm	
D60	mm	0.0079
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

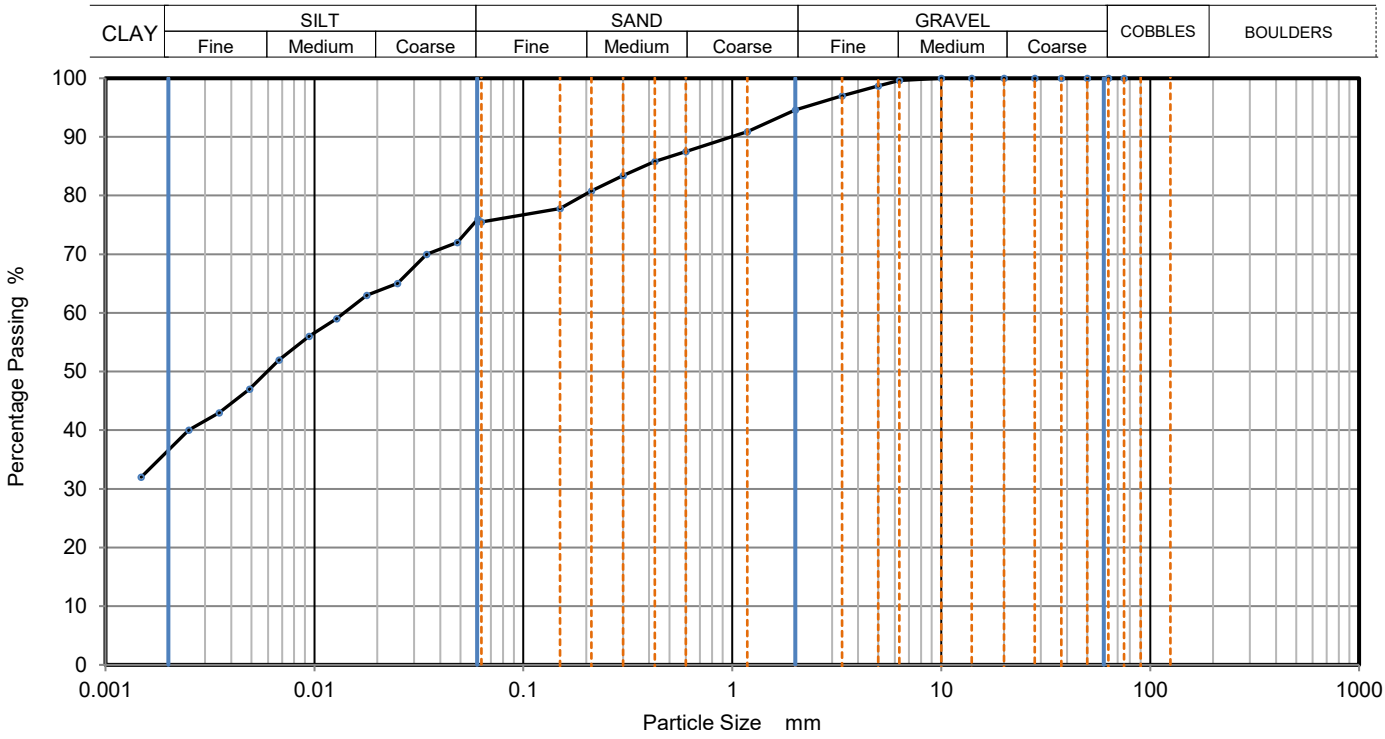
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG6
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Orangish-brown slightly gravelly slightly sandy SILT.			Depth, m	0.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250213100



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0606	76
		0.0484	72
75	100	0.0345	70
63	100	0.0249	65
50	100	0.0178	63
37.5	100	0.0127	59
28	100	0.0094	56
20	100	0.0068	52
14	100	0.0049	47
10	100	0.0035	43
6.3	100	0.0025	40
5	99	0.0015	32
3.35	97		
2	95		
1.18	91		
0.6	88	Particle density (assumed)	
0.425	86	2.65	Mg/m3
0.3	83		
0.212	81		
0.15	78		
0.063	76		

Dry Mass of sample, g	671

Sample Proportions	% dry mass
Very coarse	0
Gravel	5
Sand	19
Silt	39
Clay	37

Grading Analysis		
D100	mm	
D60	mm	0.0136
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

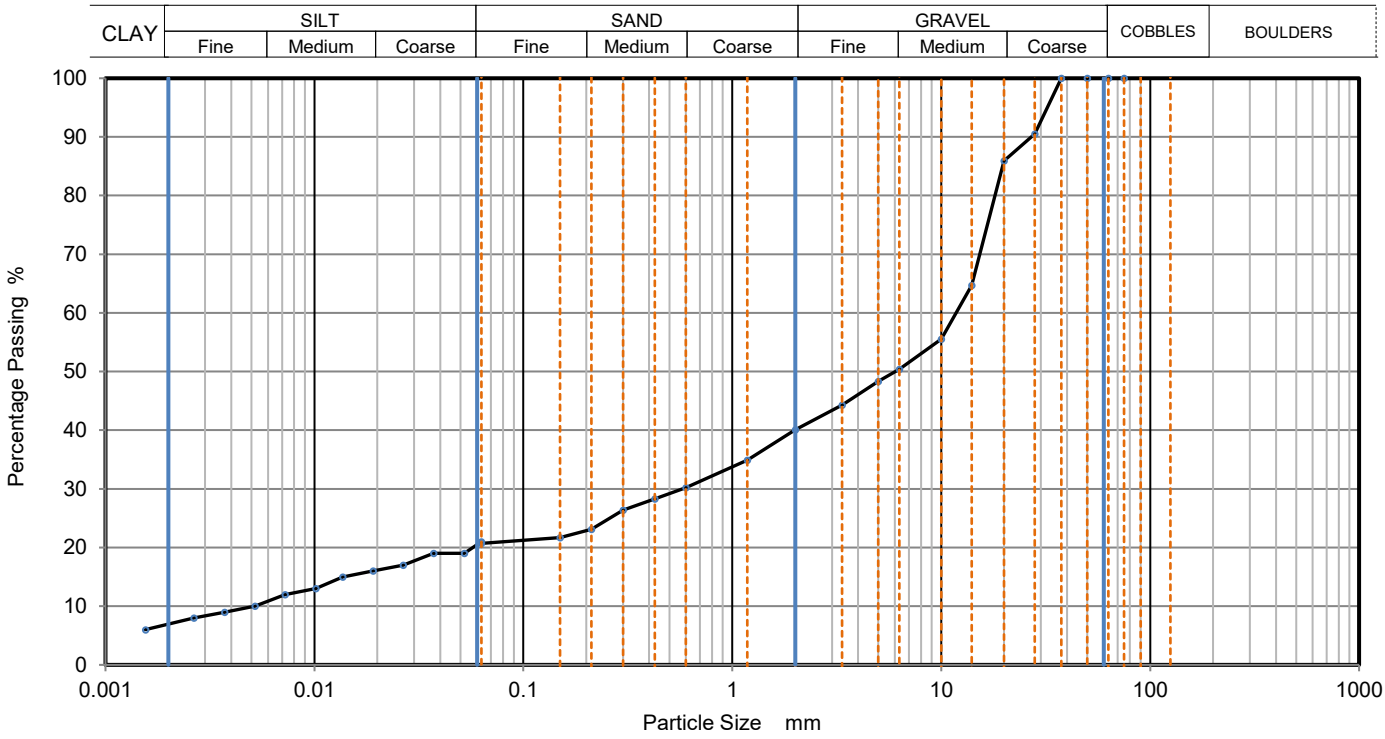
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG7
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown sandy very silty medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250211108



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	21
		0.0521	19
75	100	0.0371	19
63	100	0.0266	17
50	100	0.0191	16
37.5	100	0.0137	15
28	91	0.0102	13
20	86	0.0072	12
14	65	0.0052	10
10	56	0.0037	9
6.3	50	0.0026	8
5	48	0.0016	6
3.35	44		
2	40		
1.18	35		
0.6	30	Particle density (assumed)	
0.425	28	2.65 Mg/m3	
0.3	26		
0.212	23		
0.15	22		
0.063	21		

Dry Mass of sample, g	710

Sample Proportions	% dry mass
Very coarse	0
Gravel	60
Sand	19
Silt	13
Clay	7

Grading Analysis		
D100	mm	
D60	mm	11.8
D30	mm	0.579
D10	mm	0.00475
Uniformity Coefficient		2500
Curvature Coefficient		6

Remarks

Preparation and testing in accordance with BS1377 unless noted below

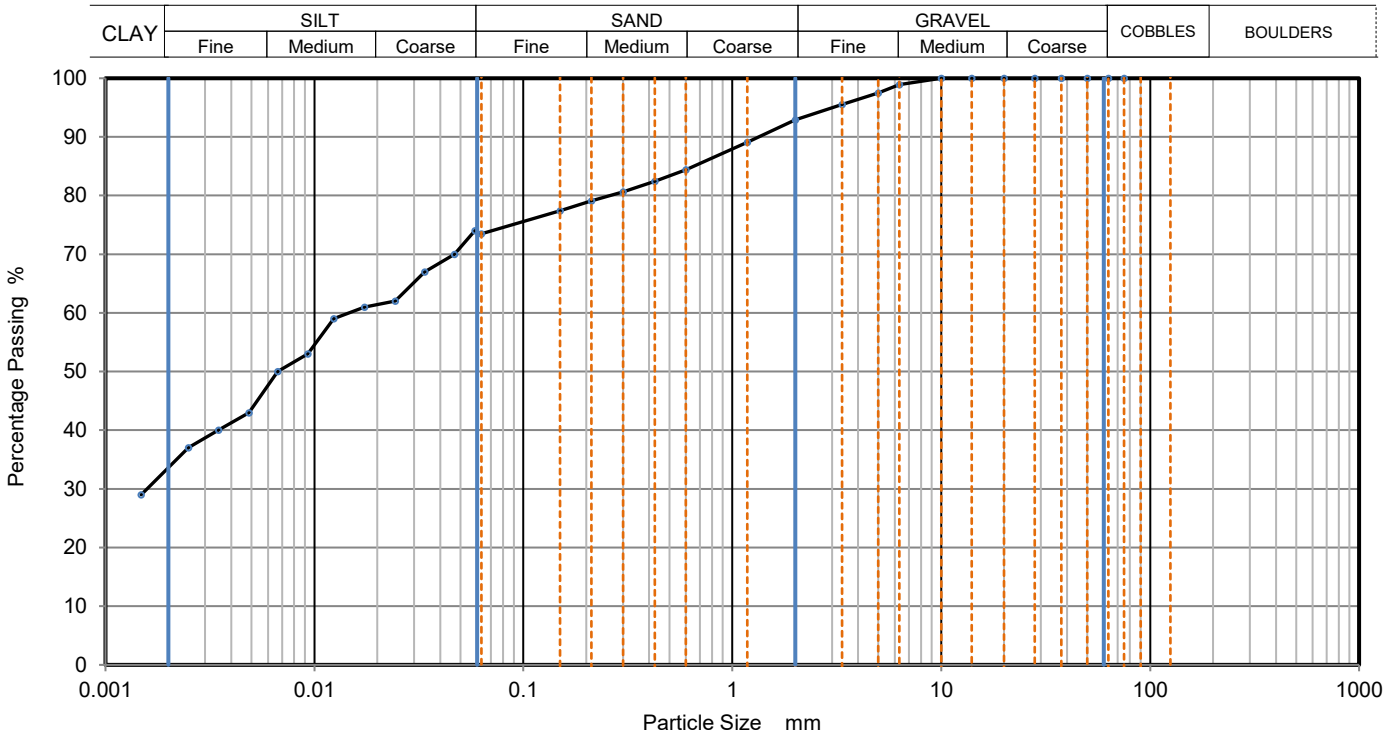
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG8
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Orangish-brown slightly gravelly slightly sandy SILT.			Depth, m	0.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250213105



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0586	74
		0.0468	70
75	100	0.0336	67
63	100	0.0244	62
50	100	0.0174	61
37.5	100	0.0124	59
28	100	0.0093	53
20	100	0.0067	50
14	100	0.0049	43
10	100	0.0035	40
6.3	99	0.0025	37
5	98	0.0015	29
3.35	96		
2	93		
1.18	89		
0.6	84	Particle density (assumed)	
0.425	82	2.65	Mg/m3
0.3	81		
0.212	79		
0.15	77		
0.063	74		

Dry Mass of sample, g: 665

Sample Proportions	% dry mass
Very coarse	0
Gravel	7
Sand	20
Silt	40
Clay	33

Grading Analysis		
D100	mm	
D60	mm	0.0149
D30	mm	0.00161
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

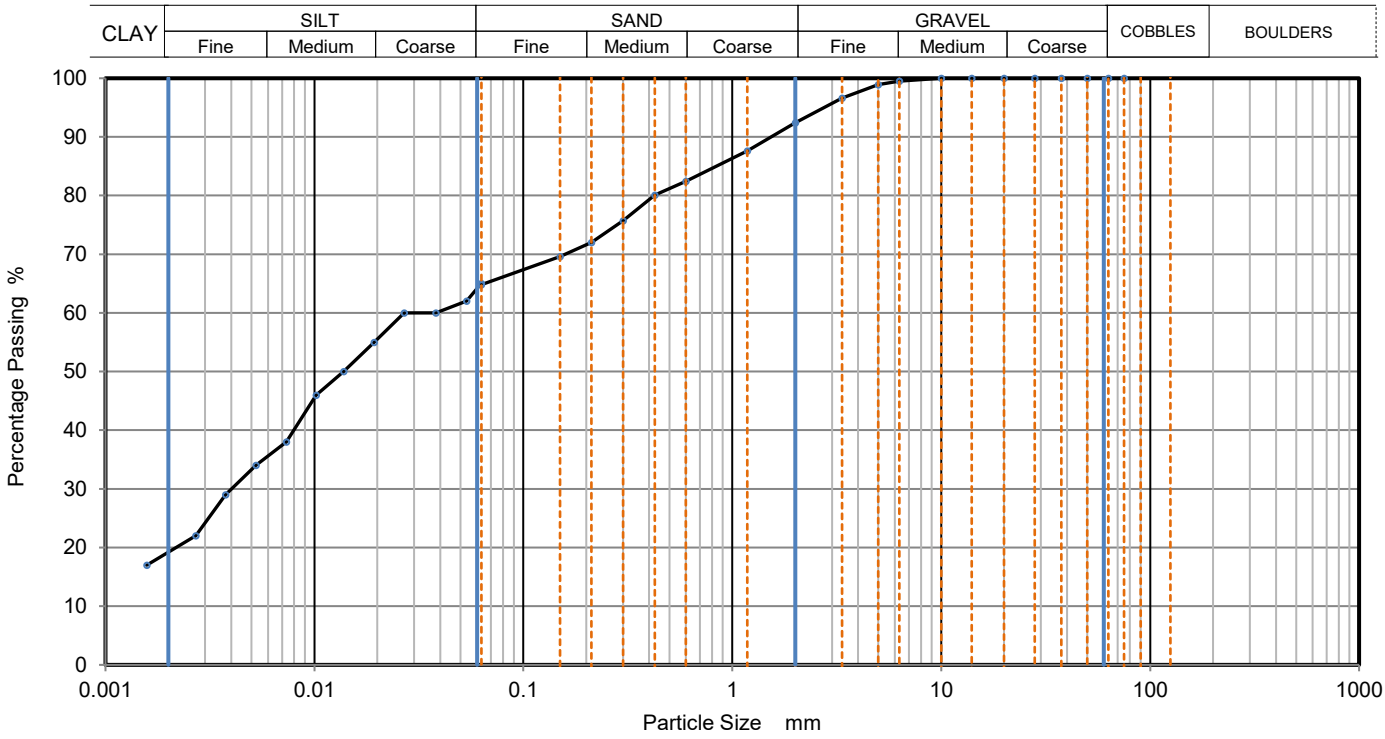
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QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG9
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025022577



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	65
		0.0535	62
75	100	0.0381	60
63	100	0.0269	60
50	100	0.0193	55
37.5	100	0.0138	50
28	100	0.0102	46
20	100	0.0073	38
14	100	0.0053	34
10	100	0.0038	29
6.3	100	0.0027	22
5	99	0.0016	17
3.35	97		
2	92		
1.18	88		
0.6	82	Particle density (assumed)	
0.425	80	2.65 Mg/m3	
0.3	76		
0.212	72		
0.15	70		
0.063	65		

Dry Mass of sample, g	603

Sample Proportions	% dry mass
Very coarse	0
Gravel	8
Sand	28
Silt	46
Clay	19

Grading Analysis		
D100	mm	
D60	mm	
D30	mm	0.00409
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

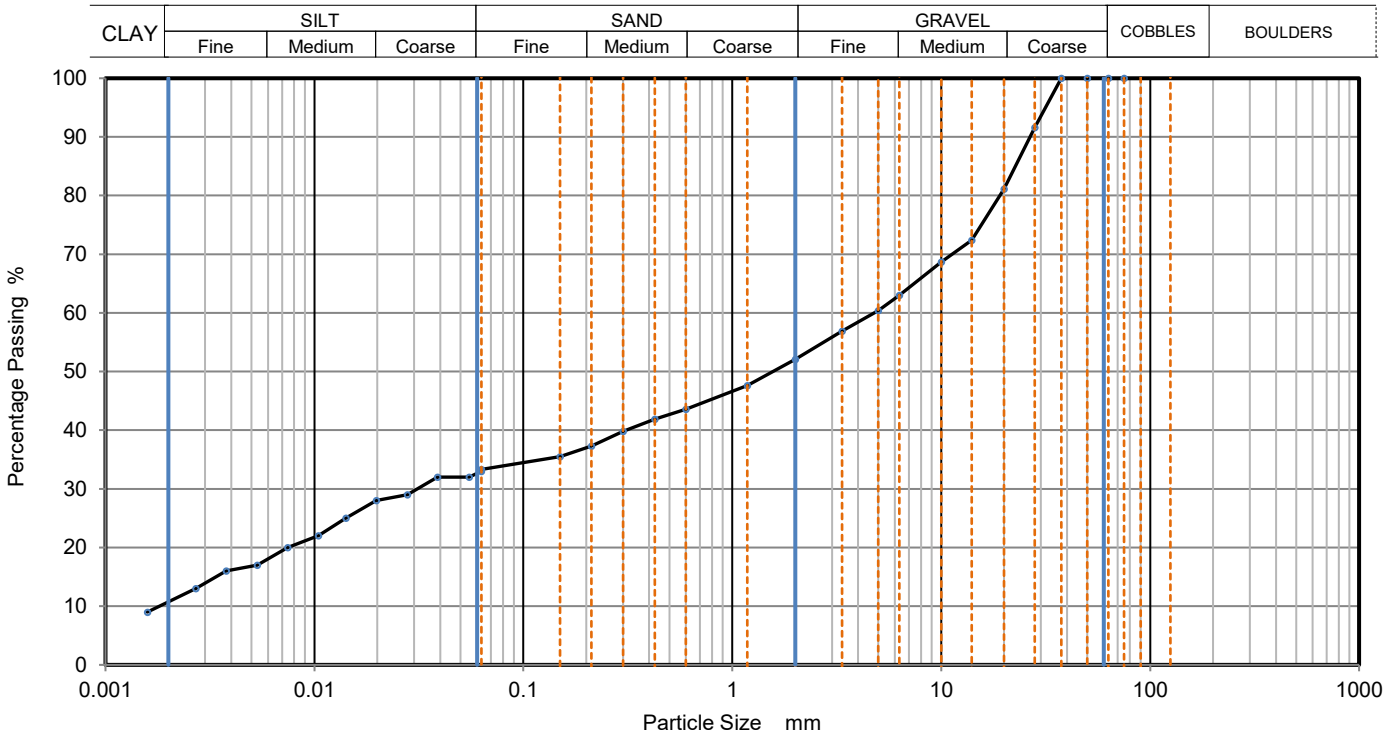
Preparation and testing in accordance with BS1377 unless noted below

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				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LG9
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Dark brown sandy very silty medium and coarse GRAVEL.			Depth, m	1.10
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025022579



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	33
		0.0550	32
75	100	0.0389	32
63	100	0.0278	29
50	100	0.0198	28
37.5	100	0.0142	25
28	92	0.0105	22
20	81	0.0074	20
14	72	0.0053	17
10	69	0.0038	16
6.3	63	0.0027	13
5	60	0.0016	9
3.35	57		
2	52		
1.18	48		
0.6	44	Particle density (assumed)	
0.425	42	2.65	Mg/m3
0.3	40		
0.212	37		
0.15	36		
0.063	33		

Dry Mass of sample, g	653

Sample Proportions	% dry mass
Very coarse	0
Gravel	48
Sand	19
Silt	23
Clay	11

Grading Analysis		
D100	mm	
D60	mm	4.76
D30	mm	0.0314
D10	mm	0.00186
Uniformity Coefficient		2600
Curvature Coefficient		0.11

Remarks

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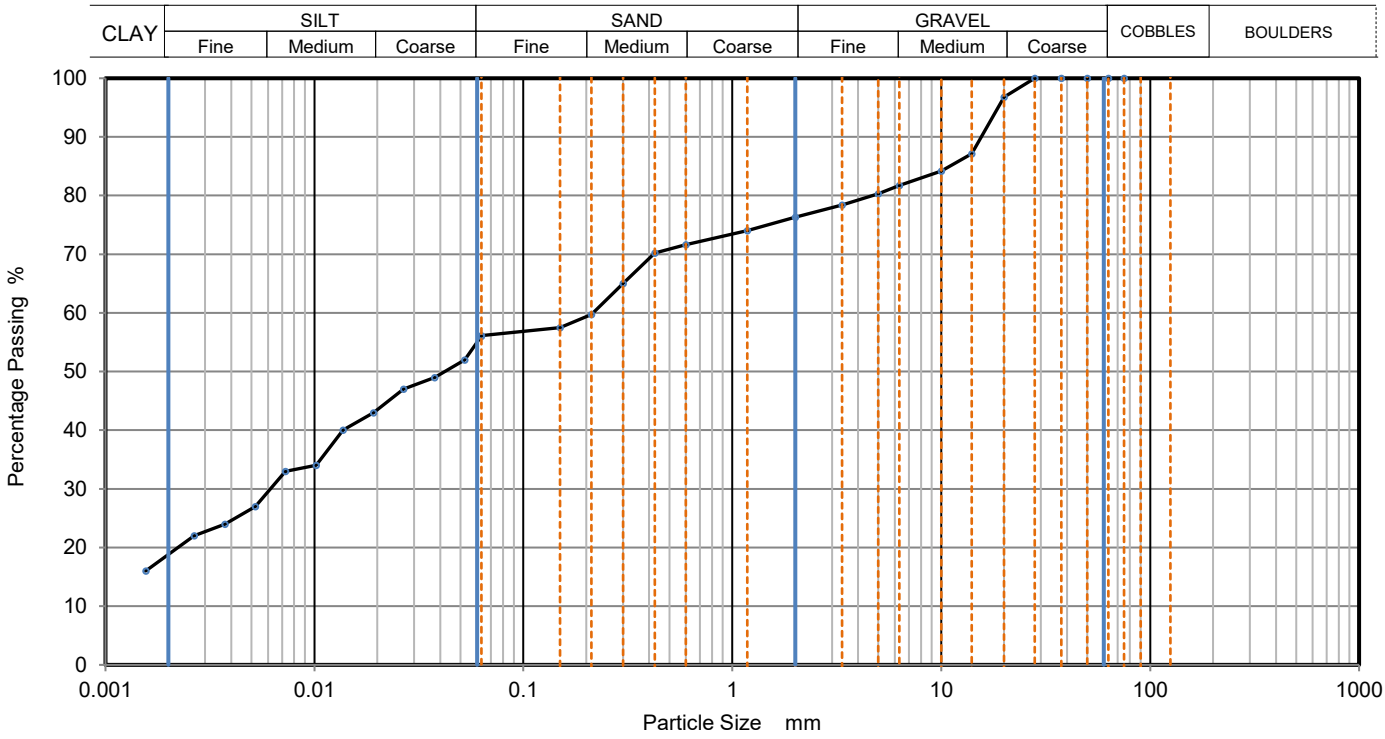
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LR1
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly sandy slightly gravelly SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250213109



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	56
		0.0524	52
75	100	0.0375	49
63	100	0.0267	47
50	100	0.0191	43
37.5	100	0.0137	40
28	100	0.0102	34
20	97	0.0073	33
14	87	0.0052	27
10	84	0.0037	24
6.3	82	0.0027	22
5	80	0.0016	16
3.35	78		
2	76		
1.18	74		
0.6	72	Particle density (assumed)	
0.425	70	2.65 Mg/m3	
0.3	65		
0.212	60		
0.15	58		
0.063	56		

Dry Mass of sample, g: 606

Sample Proportions	% dry mass
Very coarse	0
Gravel	24
Sand	20
Silt	37
Clay	19

Grading Analysis		
D100	mm	
D60	mm	0.216
D30	mm	0.0062
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

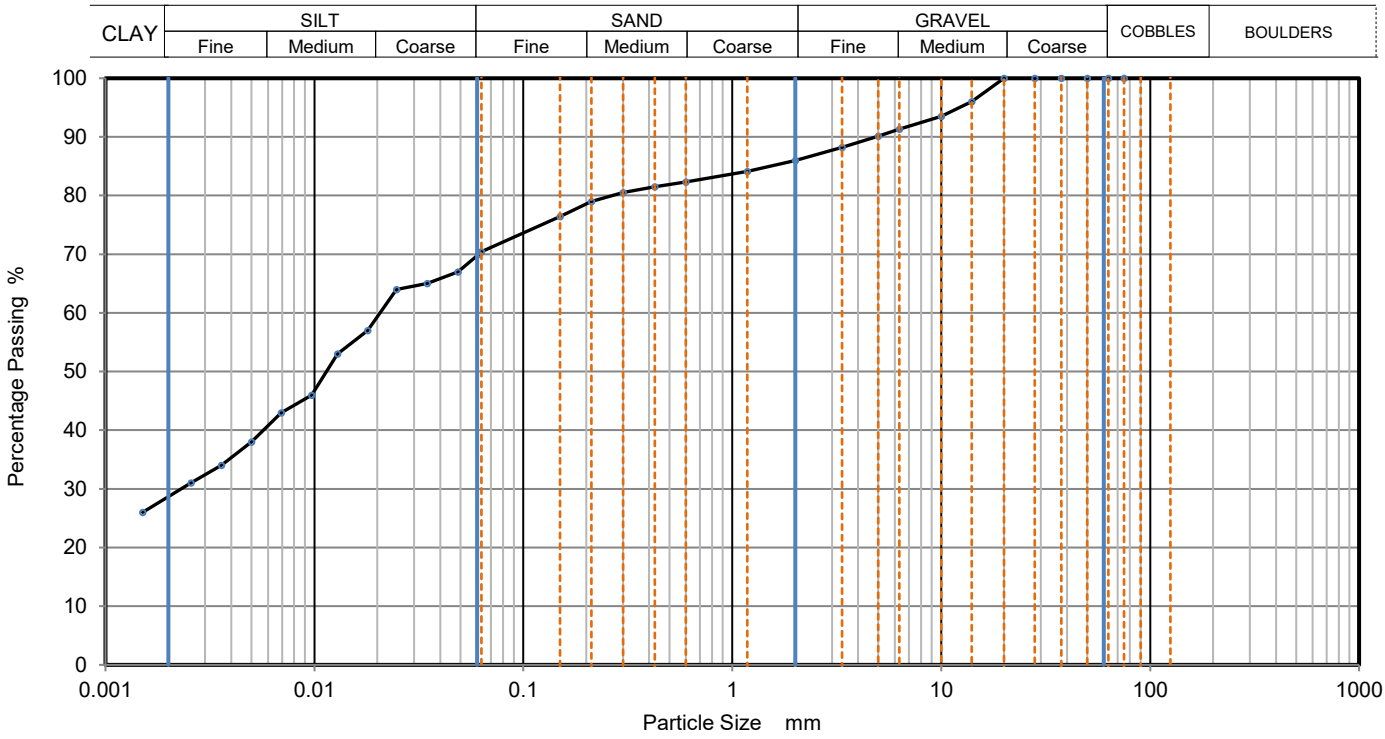
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				QC From No:R2

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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LR2
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Orangish-brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250213112



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0611	70
		0.0487	67
75	100	0.0347	65
63	100	0.0247	64
50	100	0.0180	57
37.5	100	0.0129	53
28	100	0.0097	46
20	100	0.0069	43
14	96	0.0050	38
10	94	0.0036	34
6.3	91	0.0026	31
5	90	0.0015	26
3.35	88		
2	86		
1.18	84		
0.6	82	Particle density (assumed)	
0.425	82	2.65 Mg/m3	
0.3	81		
0.212	79		
0.15	76		
0.063	70		

Dry Mass of sample, g: 658

Sample Proportions	% dry mass
Very coarse	0
Gravel	14
Sand	16
Silt	42
Clay	29

Grading Analysis		
D100	mm	
D60	mm	0.021
D30	mm	0.00233
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

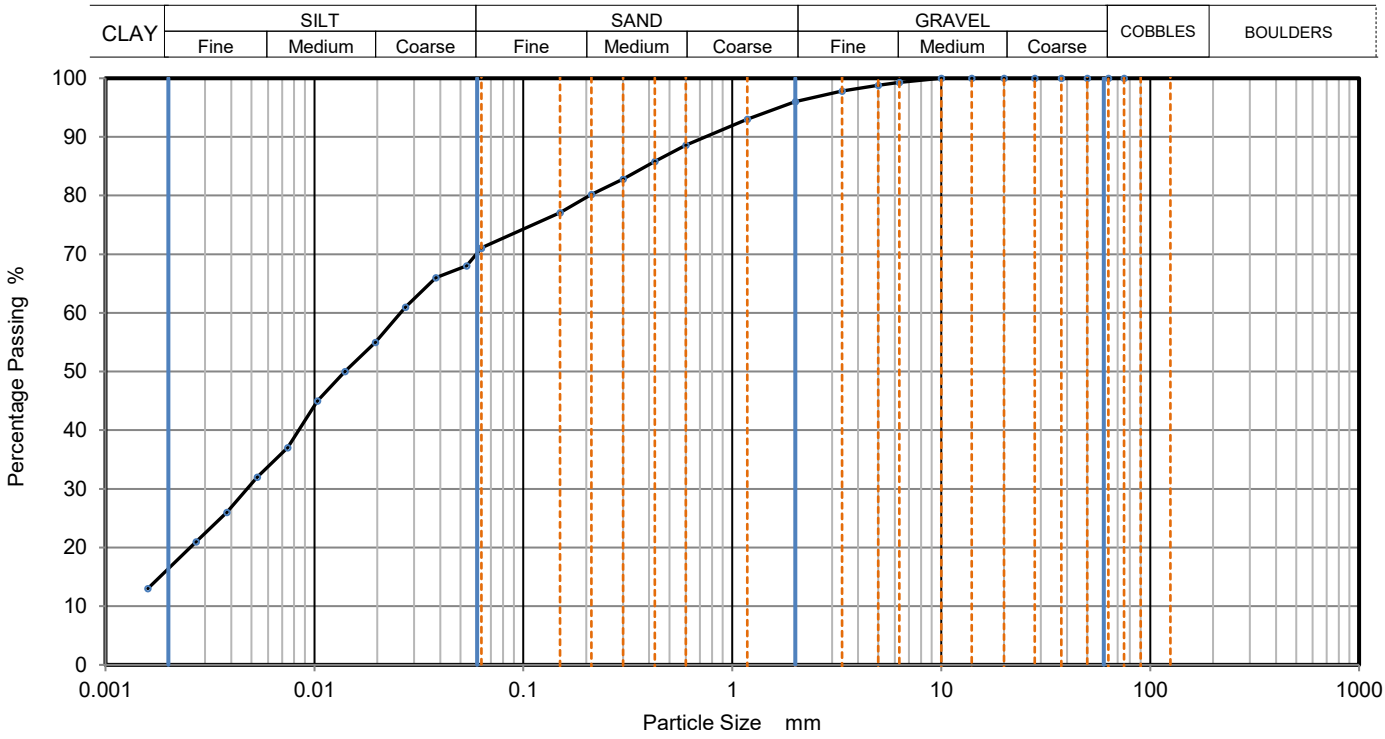
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LR2
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Orangish-light-brown slightly gravelly slightly sandy SILT.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250213114



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	71
		0.0536	68
75	100	0.0381	66
63	100	0.0273	61
50	100	0.0196	55
37.5	100	0.0140	50
28	100	0.0103	45
20	100	0.0074	37
14	100	0.0053	32
10	100	0.0038	26
6.3	99	0.0027	21
5	99	0.0016	13
3.35	98		
2	96		
1.18	93		
0.6	89	Particle density (assumed)	
0.425	86	2.65	Mg/m3
0.3	83		
0.212	80		
0.15	77		
0.063	71		

Dry Mass of sample, g	478

Sample Proportions	% dry mass
Very coarse	0
Gravel	4
Sand	25
Silt	55
Clay	17

Grading Analysis		
D100	mm	
D60	mm	0.0263
D30	mm	0.0048
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

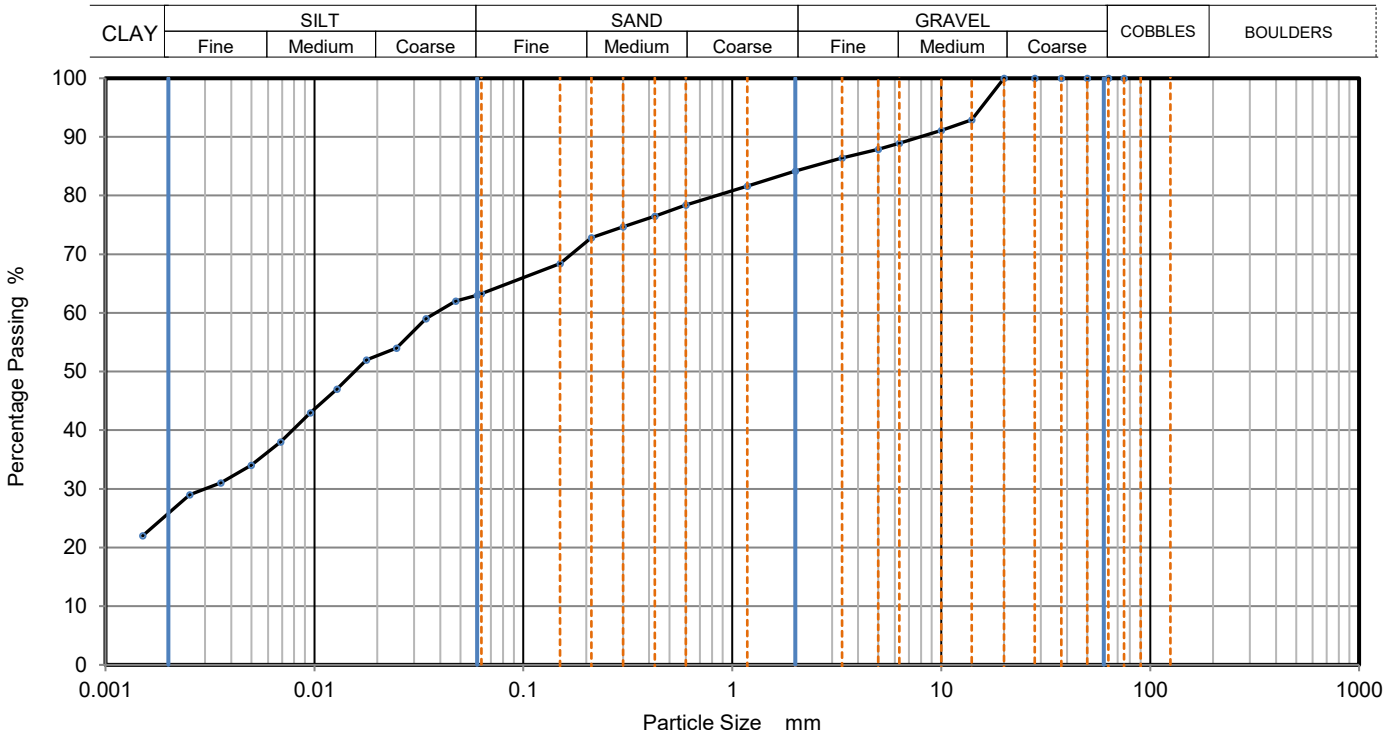
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LR3
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Orangish-light-brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250213116



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0601	63
		0.0475	62
75	100	0.0341	59
63	100	0.0247	54
50	100	0.0177	52
37.5	100	0.0128	47
28	100	0.0096	43
20	100	0.0069	38
14	93	0.0050	34
10	91	0.0036	31
6.3	89	0.0025	29
5	88	0.0015	22
3.35	86		
2	84		
1.18	82		
0.6	78	Particle density (assumed)	
0.425	77	2.65 Mg/m3	
0.3	75		
0.212	73		
0.15	68		
0.063	63		

Dry Mass of sample, g	620

Sample Proportions	% dry mass
Very coarse	0
Gravel	16
Sand	21
Silt	37
Clay	26

Grading Analysis		
D100	mm	
D60	mm	0.0387
D30	mm	0.00288
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

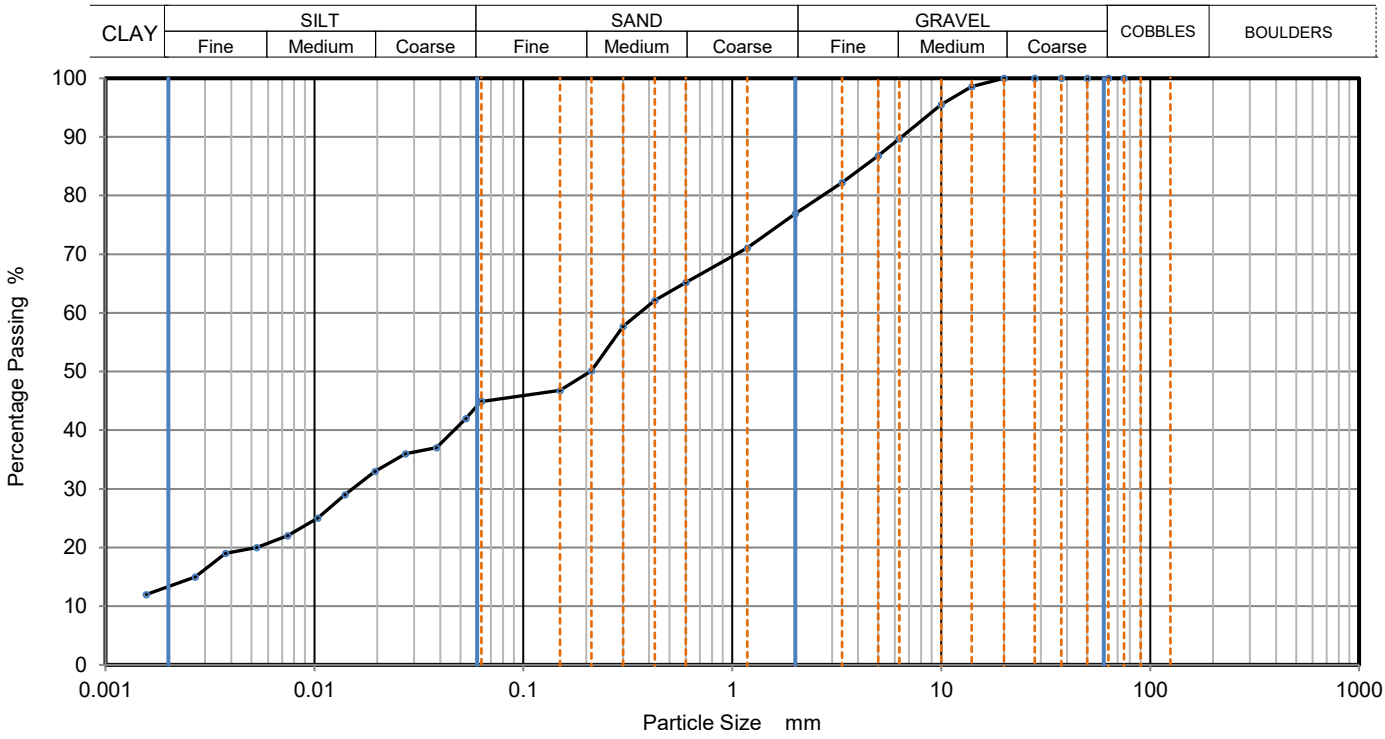
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LR4
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250213119



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	45
		0.0532	42
75	100	0.0383	37
63	100	0.0273	36
50	100	0.0195	33
37.5	100	0.0140	29
28	100	0.0104	25
20	100	0.0074	22
14	99	0.0053	20
10	96	0.0038	19
6.3	90	0.0027	15
5	87	0.0016	12
3.35	82		
2	77		
1.18	71		
0.6	65	Particle density (assumed)	
0.425	62	2.65 Mg/m3	
0.3	58		
0.212	50		
0.15	47		
0.063	45		

Dry Mass of sample, g	707

Sample Proportions	% dry mass
Very coarse	0
Gravel	23
Sand	32
Silt	31
Clay	14

Grading Analysis		
D100	mm	
D60	mm	0.36
D30	mm	0.0149
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

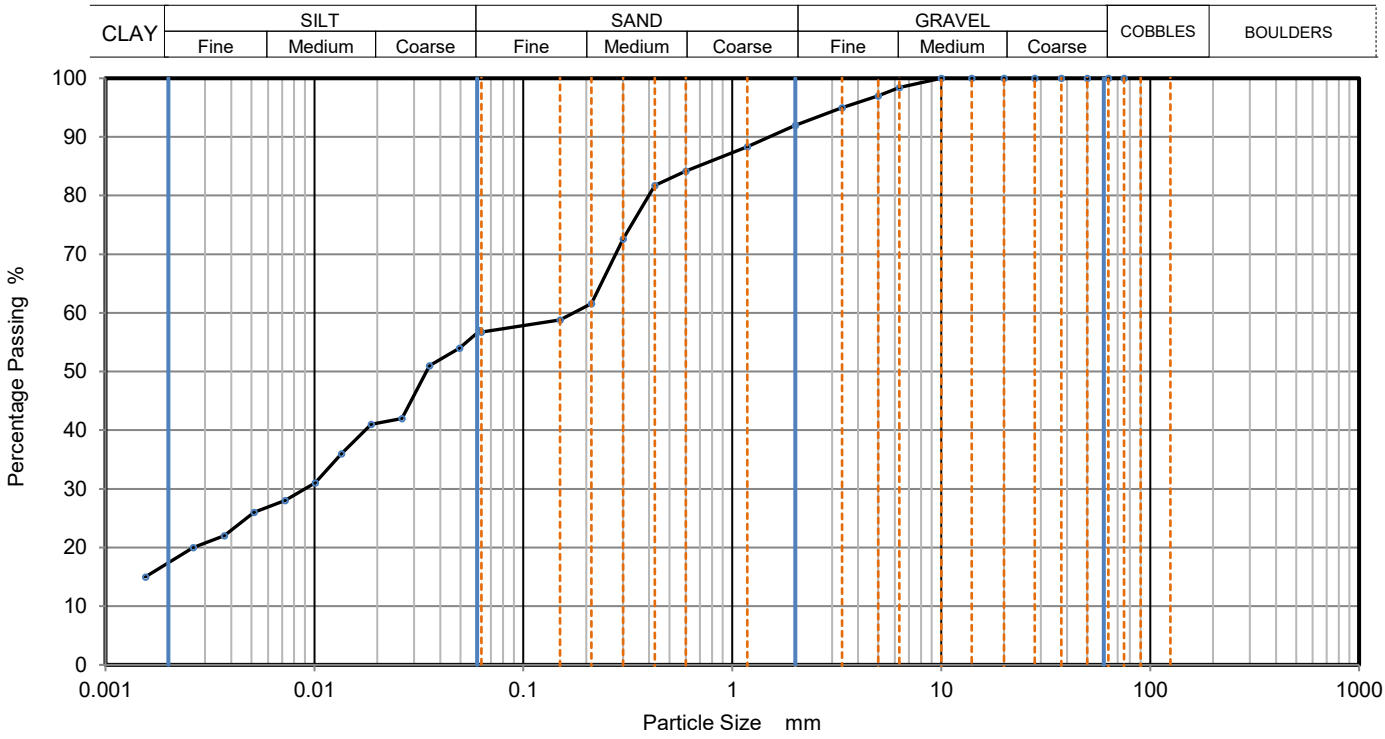
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LR4
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown slightly gravelly sandy SILT. Sand is medium.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250213121



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0621	57
		0.0496	54
75	100	0.0356	51
63	100	0.0263	42
50	100	0.0187	41
37.5	100	0.0135	36
28	100	0.0101	31
20	100	0.0072	28
14	100	0.0051	26
10	100	0.0037	22
6.3	98	0.0026	20
5	97	0.0016	15
3.35	95		
2	92		
1.18	88		
0.6	84	Particle density (assumed)	
0.425	82	2.65	Mg/m3
0.3	73		
0.212	62		
0.15	59		
0.063	57		

Dry Mass of sample, g	684

Sample Proportions	% dry mass
Very coarse	0
Gravel	8
Sand	35
Silt	39
Clay	17

Grading Analysis		
D100	mm	
D60	mm	0.174
D30	mm	0.0095
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

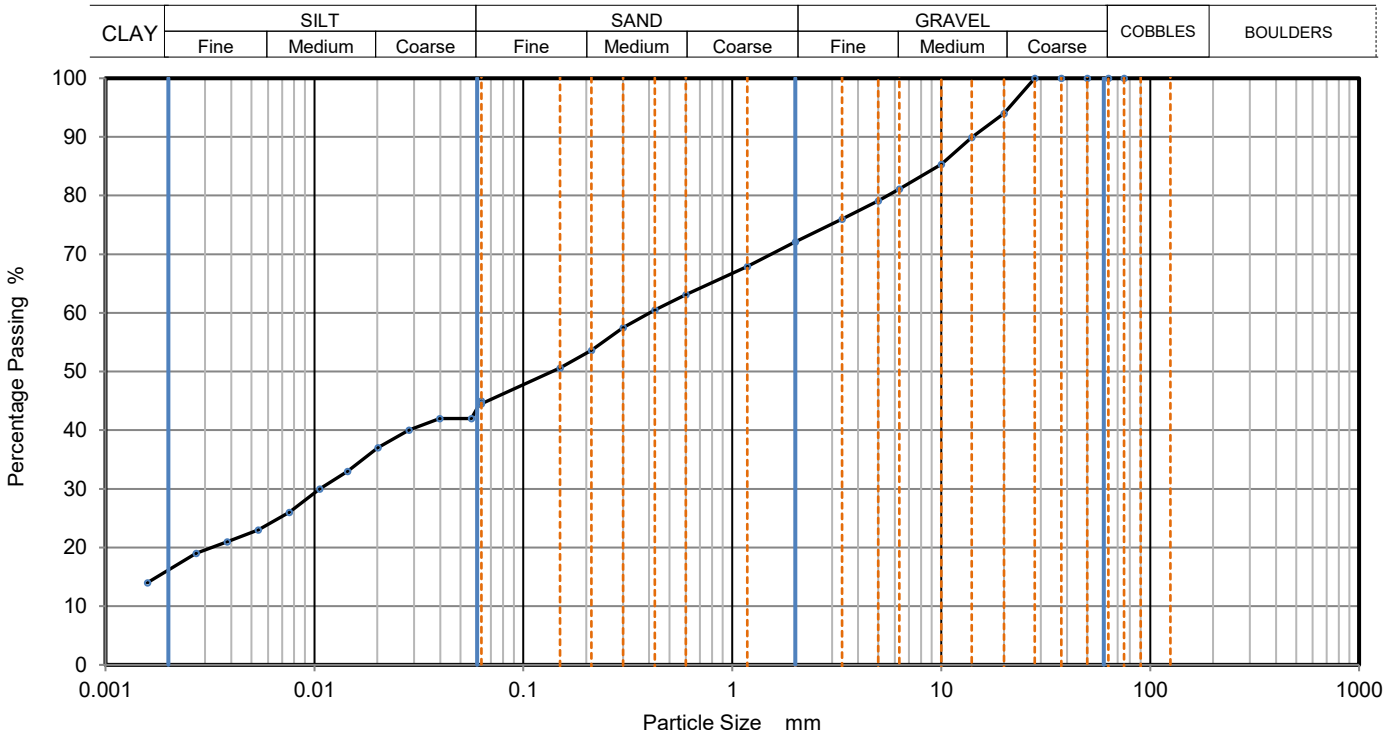
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**	Job Ref	**2024SO105**
		Borehole/Pit No.	TP-LR5
Site Name	Lot 1, Lough Talt	Sample No.	1
Soil Description	Dark brown slightly gravelly slightly sandy SILT.	Depth, m	0.50
Specimen Reference	Specimen Depth: m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5	KeyLAB ID	IDL12025022583



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	45
		0.0563	42
75	100	0.0398	42
63	100	0.0283	40
50	100	0.0201	37
37.5	100	0.0144	33
28	100	0.0106	30
20	94	0.0076	26
14	90	0.0054	23
10	85	0.0038	21
6.3	81	0.0027	19
5	79	0.0016	14
3.35	76		
2	72		
1.18	68		
0.6	63	Particle density (assumed)	
0.425	61	2.65 Mg/m3	
0.3	58		
0.212	54		
0.15	51		
0.063	45		

Dry Mass of sample, g	615

Sample Proportions	% dry mass
Very coarse	0
Gravel	28
Sand	28
Silt	28
Clay	16

Grading Analysis		
D100	mm	
D60	mm	0.401
D30	mm	0.0102
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

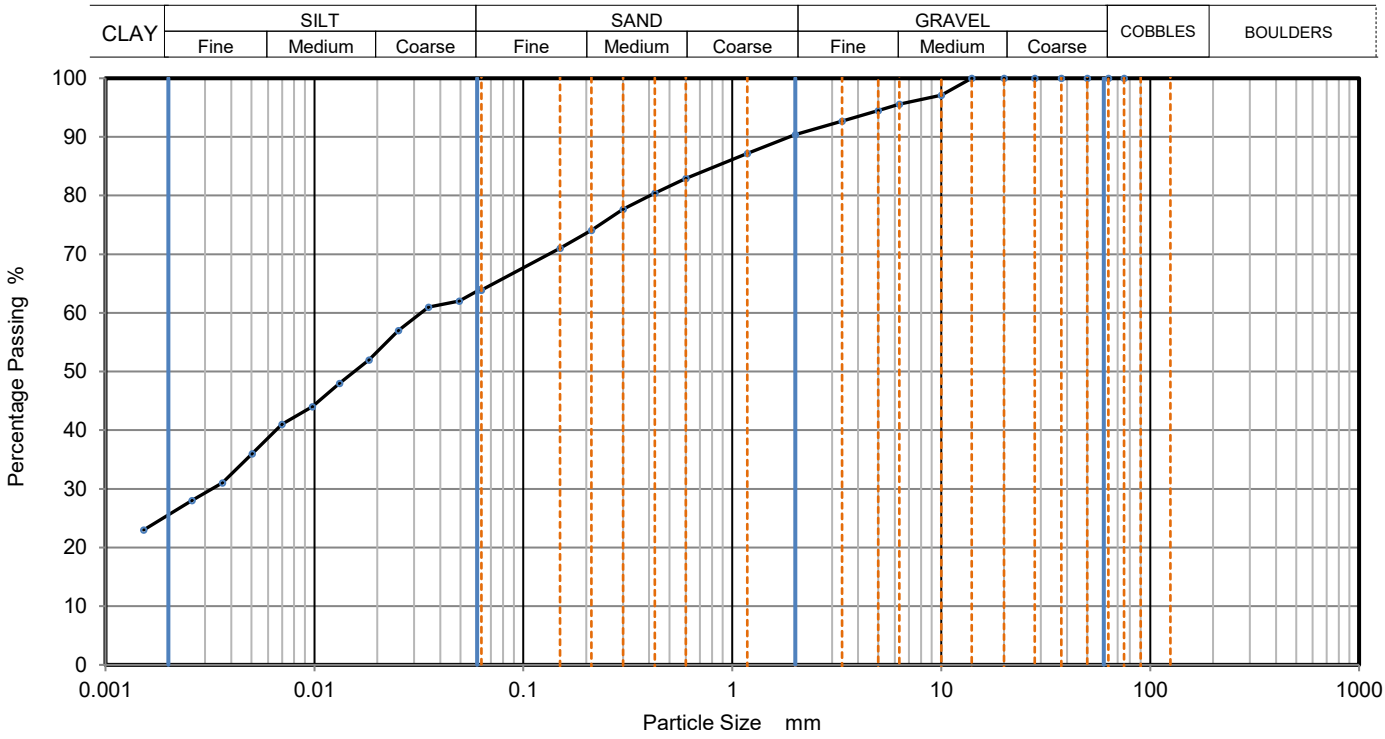
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LR5
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Orangish-brown slightly gravelly slightly sandy SILT.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025022585



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0621	64
		0.0494	62
75	100	0.0352	61
63	100	0.0252	57
50	100	0.0182	52
37.5	100	0.0132	48
28	100	0.0098	44
20	100	0.0070	41
14	100	0.0050	36
10	97	0.0036	31
6.3	96	0.0026	28
5	95	0.0015	23
3.35	93		
2	90		
1.18	87		
0.6	83	Particle density (assumed)	
0.425	80	2.65	Mg/m3
0.3	78		
0.212	74		
0.15	71		
0.063	64		

Dry Mass of sample, g: 637

Sample Proportions	% dry mass
Very coarse	0
Gravel	10
Sand	27
Silt	39
Clay	25

Grading Analysis		
D100	mm	
D60	mm	0.033
D30	mm	0.00323
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

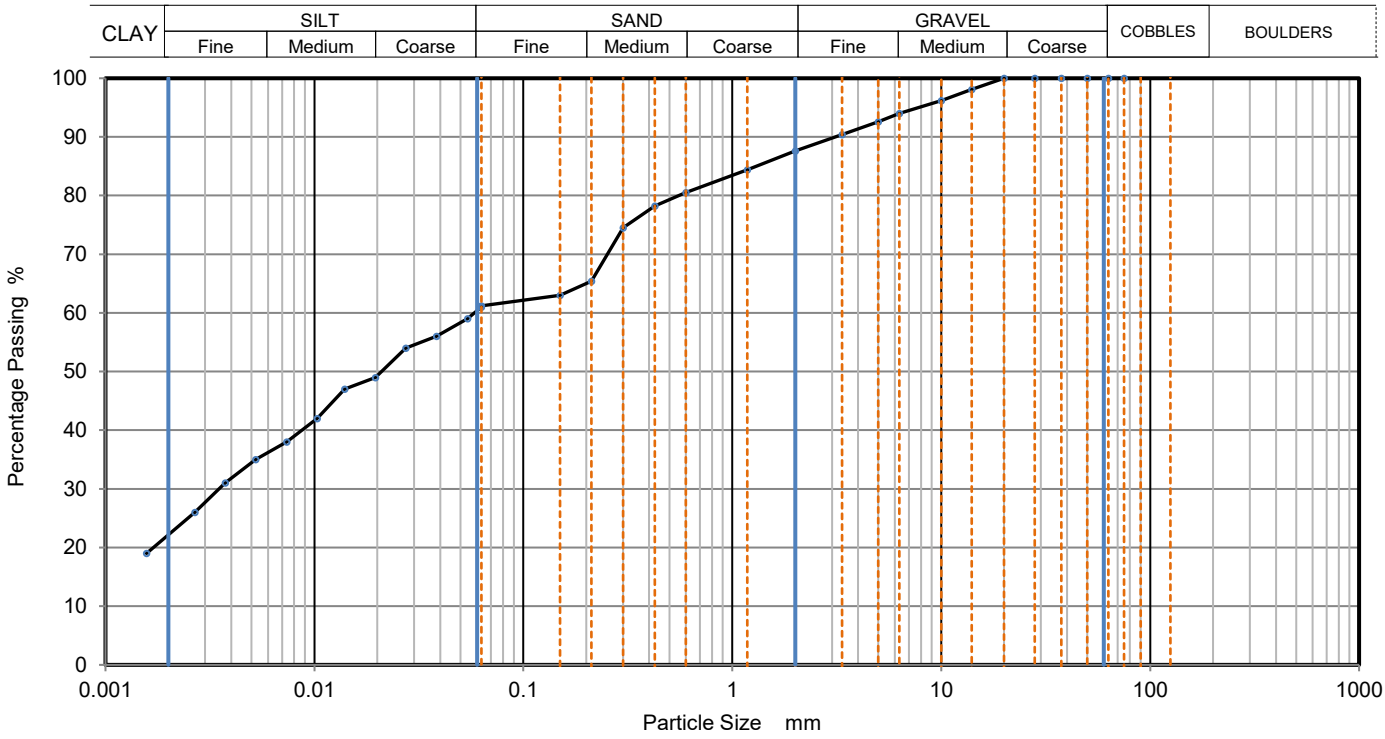
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				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LR5
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Dark brown slightly gravelly slightly sandy SILT.			Depth, m	3.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025022587



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	61
		0.0540	59
75	100	0.0384	56
63	100	0.0273	54
50	100	0.0196	49
37.5	100	0.0139	47
28	100	0.0103	42
20	100	0.0074	38
14	98	0.0052	35
10	96	0.0037	31
6.3	94	0.0027	26
5	93	0.0016	19
3.35	90		
2	88		
1.18	84		
0.6	81	Particle density (assumed)	
0.425	78	2.65	Mg/m3
0.3	75		
0.212	65		
0.15	63		
0.063	61		

Dry Mass of sample, g	640

Sample Proportions	% dry mass
Very coarse	0
Gravel	12
Sand	26
Silt	39
Clay	22

Grading Analysis		
D100	mm	
D60	mm	0.0583
D30	mm	0.00359
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

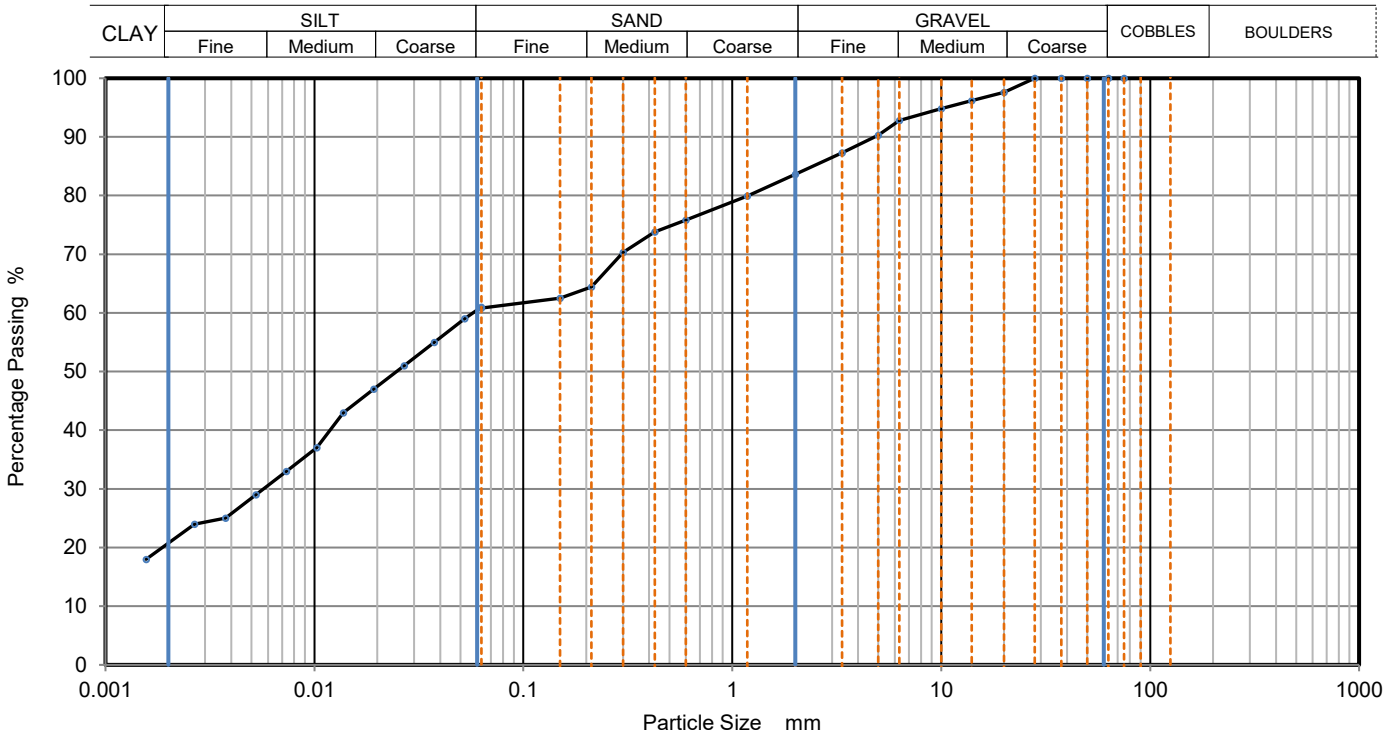
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-LR6
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250213124



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	61
		0.0523	59
75	100	0.0375	55
63	100	0.0269	51
50	100	0.0192	47
37.5	100	0.0138	43
28	100	0.0102	37
20	98	0.0073	33
14	96	0.0052	29
10	95	0.0038	25
6.3	93	0.0027	24
5	90	0.0016	18
3.35	87		
2	84		
1.18	80		
0.6	76	Particle density (assumed)	
0.425	74	2.65	Mg/m3
0.3	70		
0.212	64		
0.15	63		
0.063	61		

Dry Mass of sample, g: 634

Sample Proportions	% dry mass
Very coarse	0
Gravel	16
Sand	23
Silt	40
Clay	20

Grading Analysis		
D100	mm	
D60	mm	0.0584
D30	mm	0.00551
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

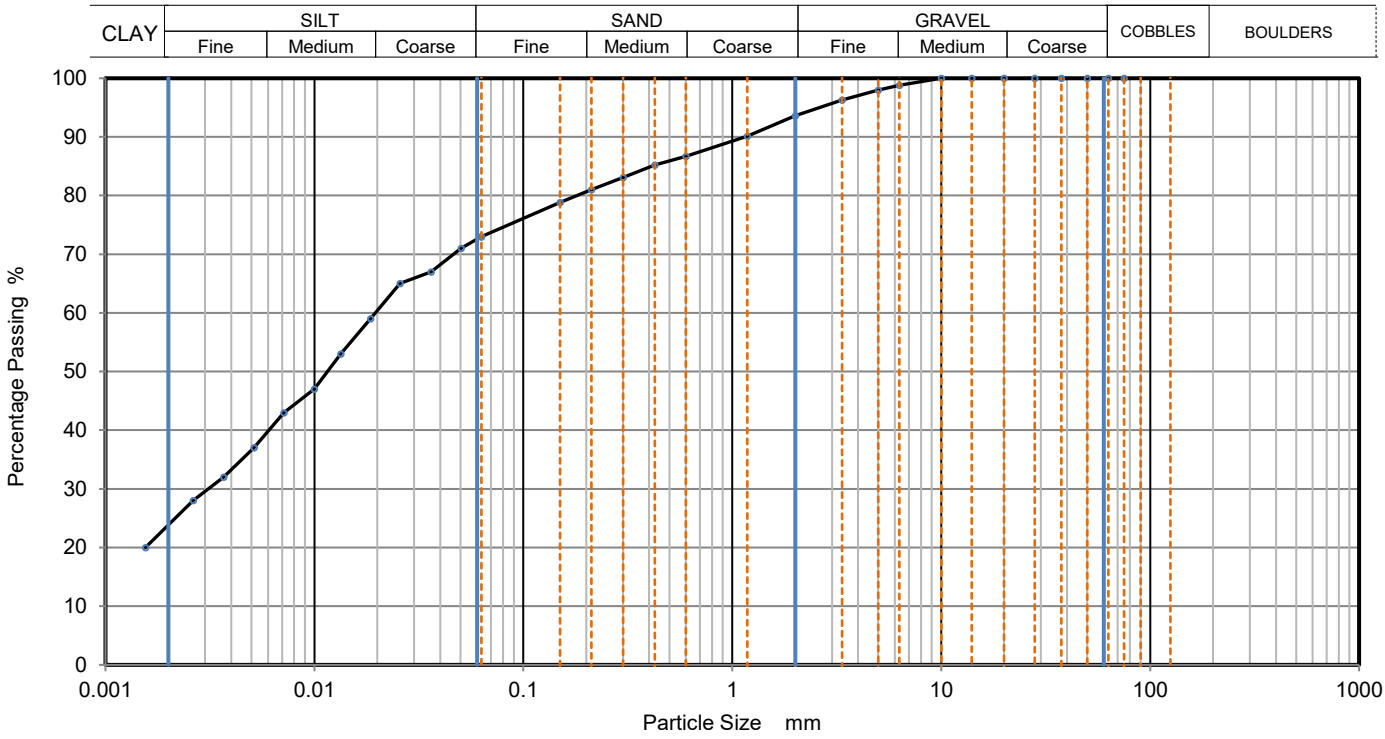
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M01
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025022590



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	73
		0.0503	71
75	100	0.0361	67
63	100	0.0257	65
50	100	0.0186	59
37.5	100	0.0134	53
28	100	0.0100	47
20	100	0.0071	43
14	100	0.0051	37
10	100	0.0037	32
6.3	99	0.0026	28
5	98	0.0016	20
3.35	96		
2	94		
1.18	90		
0.6	87	Particle density (assumed)	
0.425	85	2.65 Mg/m3	
0.3	83		
0.212	81		
0.15	79		
0.063	73		

Dry Mass of sample, g	598

Sample Proportions	% dry mass
Very coarse	0
Gravel	6
Sand	21
Silt	49
Clay	24

Grading Analysis		
D100	mm	
D60	mm	0.0198
D30	mm	0.00301
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

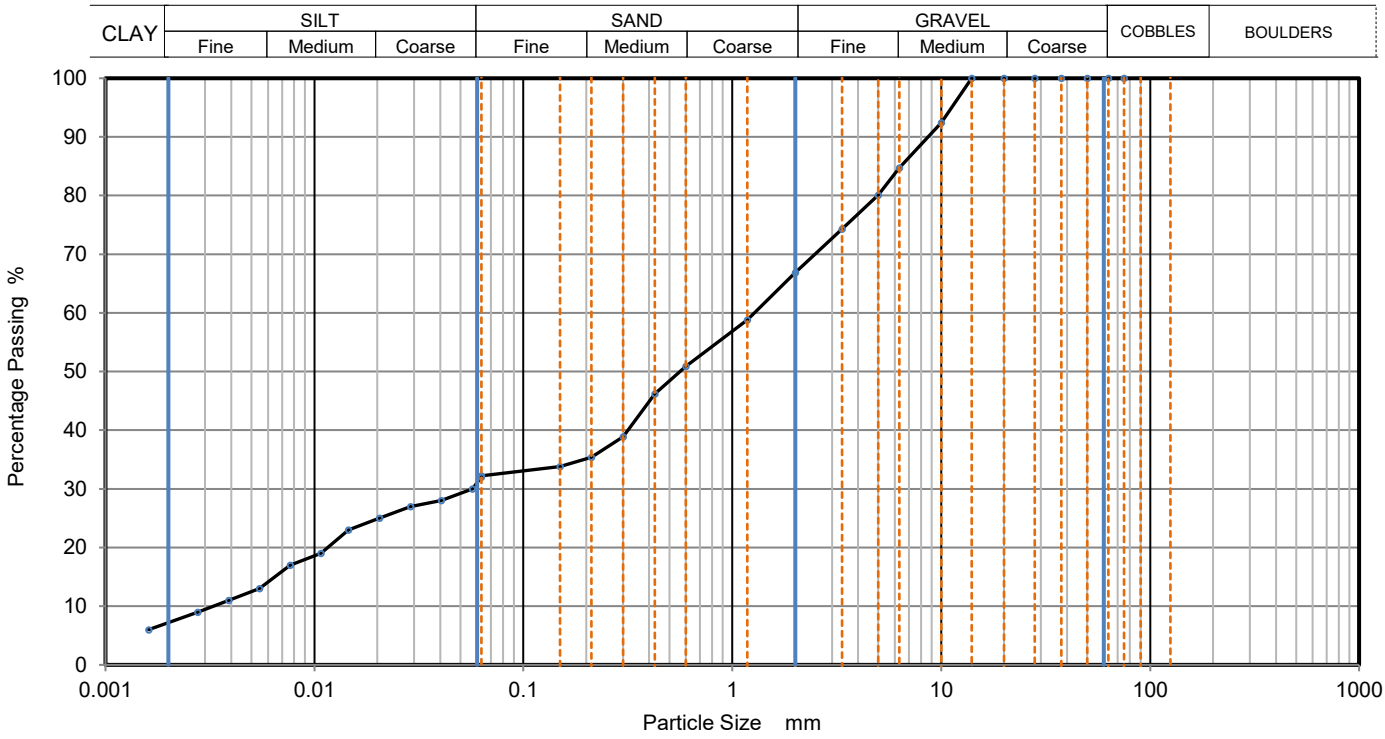
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M01
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown very silty SAND and GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025022592



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	32
		0.0570	30
75	100	0.0405	28
63	100	0.0288	27
50	100	0.0205	25
37.5	100	0.0146	23
28	100	0.0108	19
20	100	0.0076	17
14	100	0.0055	13
10	92	0.0039	11
6.3	85	0.0028	9
5	80	0.0016	6
3.35	74		
2	67		
1.18	59		
0.6	51	Particle density (assumed)	
0.425	46	2.65	Mg/m3
0.3	39		
0.212	35		
0.15	34		
0.063	32		

Dry Mass of sample, g	709

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	35
Silt	25
Clay	7

Grading Analysis		
D100	mm	
D60	mm	1.27
D30	mm	0.0539
D10	mm	0.00304
Uniformity Coefficient		420
Curvature Coefficient		0.75

Remarks

Preparation and testing in accordance with BS1377 unless noted below

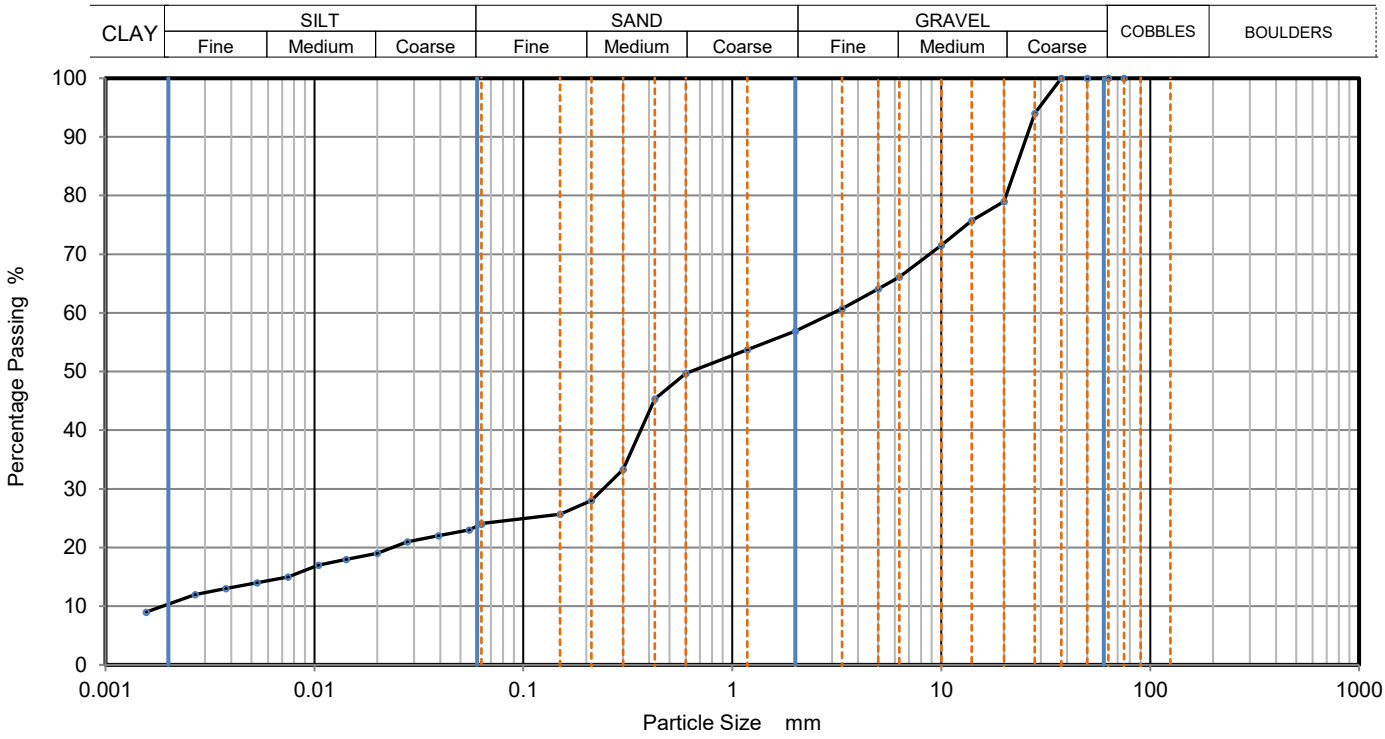
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M02
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Orangish-brown very silty very sandy coarse GRAVEL. Sand is medium.			Depth, m	0.60
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202504251



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	24
		0.0551	23
75	100	0.0392	22
63	100	0.0279	21
50	100	0.0200	19
37.5	100	0.0142	18
28	94	0.0104	17
20	79	0.0075	15
14	76	0.0053	14
10	72	0.0038	13
6.3	66	0.0027	12
5	64	0.0016	9
3.35	61		
2	57		
1.18	54		
0.6	50	Particle density (assumed)	
0.425	45	2.65	Mg/m3
0.3	33		
0.212	28		
0.15	26		
0.063	24		

Dry Mass of sample, g: 671

Sample Proportions	% dry mass
Very coarse	0
Gravel	43
Sand	33
Silt	14
Clay	10

Grading Analysis		
D100	mm	
D60	mm	3.04
D30	mm	0.242
D10	mm	0.00181
Uniformity Coefficient		1700
Curvature Coefficient		11

Remarks

Preparation and testing in accordance with BS1377 unless noted below

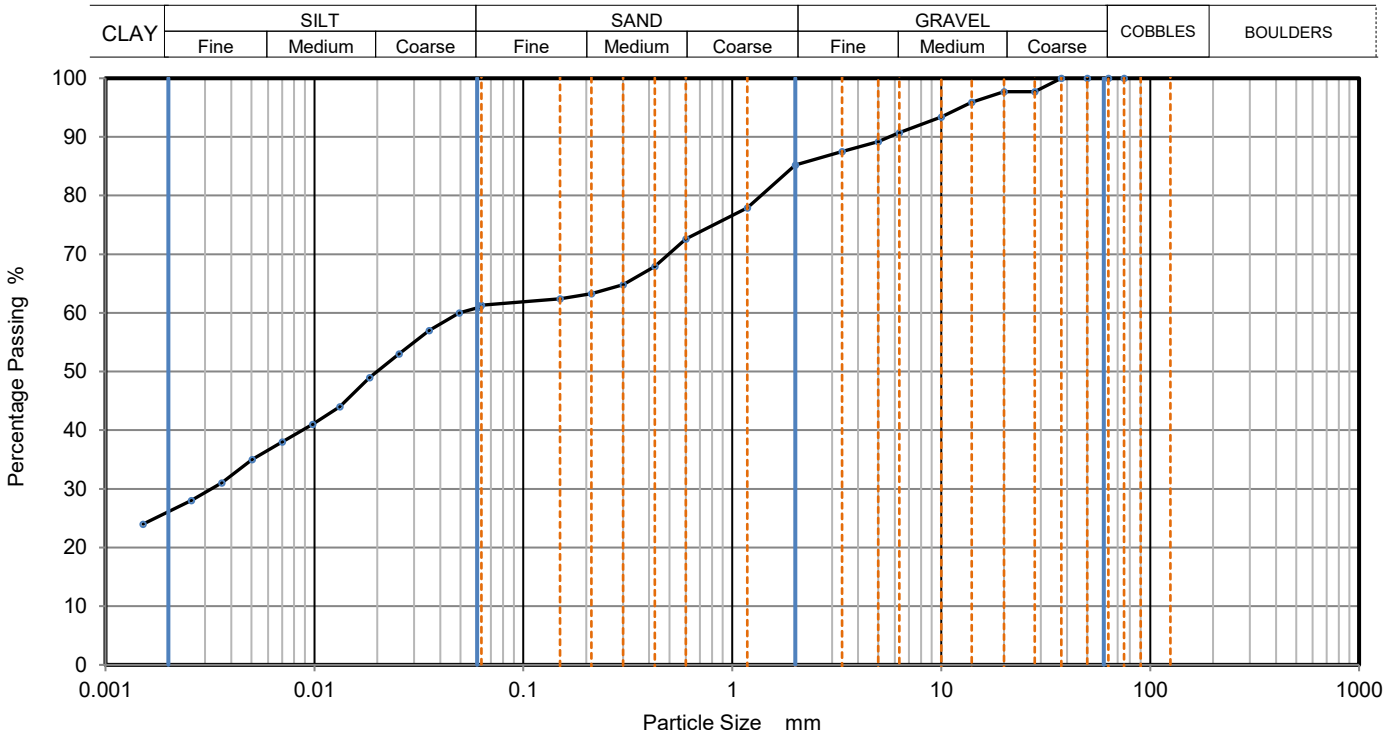
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M03
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Greyish-brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202504254



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0621	61
		0.0493	60
75	100	0.0354	57
63	100	0.0254	53
50	100	0.0184	49
37.5	100	0.0132	44
28	98	0.0098	41
20	98	0.0070	38
14	96	0.0050	35
10	93	0.0036	31
6.3	91	0.0026	28
5	89	0.0015	24
3.35	88		
2	85		
1.18	78		
0.6	73	Particle density (assumed)	
0.425	68	2.65 Mg/m3	
0.3	65		
0.212	63		
0.15	62		
0.063	61		

Dry Mass of sample, g	665

Sample Proportions	% dry mass
Very coarse	0
Gravel	15
Sand	24
Silt	35
Clay	26

Grading Analysis		
D100	mm	
D60	mm	0.0513
D30	mm	0.00309
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

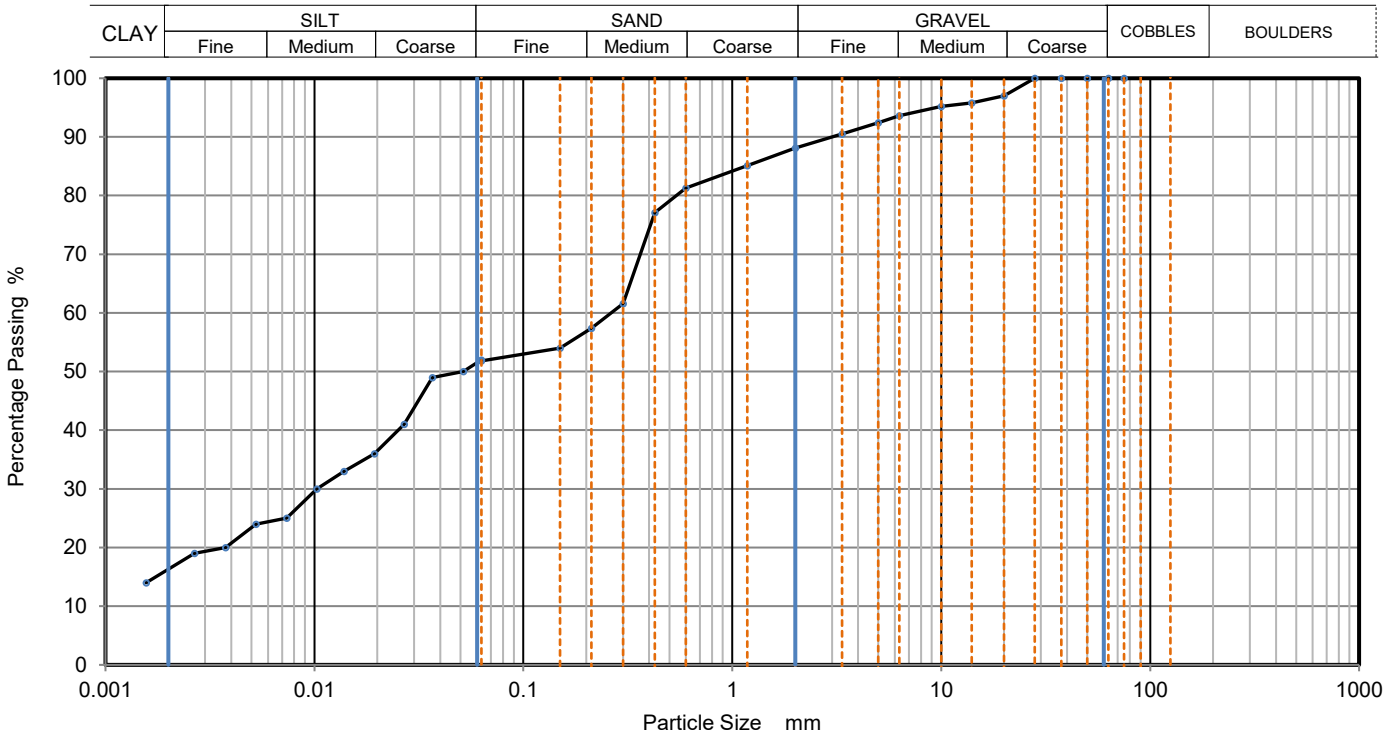
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M04
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown slightly gravelly sandy SILT. Sand is medium.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202504257



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	52
		0.0515	50
75	100	0.0367	49
63	100	0.0269	41
50	100	0.0194	36
37.5	100	0.0139	33
28	100	0.0102	30
20	97	0.0074	25
14	96	0.0052	24
10	95	0.0038	20
6.3	94	0.0027	19
5	92	0.0016	14
3.35	91		
2	88		
1.18	85		
0.6	81	Particle density (assumed)	
0.425	77	2.65	Mg/m3
0.3	62		
0.212	57		
0.15	54		
0.063	52		

Dry Mass of sample, g	719

Sample Proportions	% dry mass
Very coarse	0
Gravel	12
Sand	36
Silt	36
Clay	16

Grading Analysis		
D100	mm	
D60	mm	0.262
D30	mm	0.0104
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

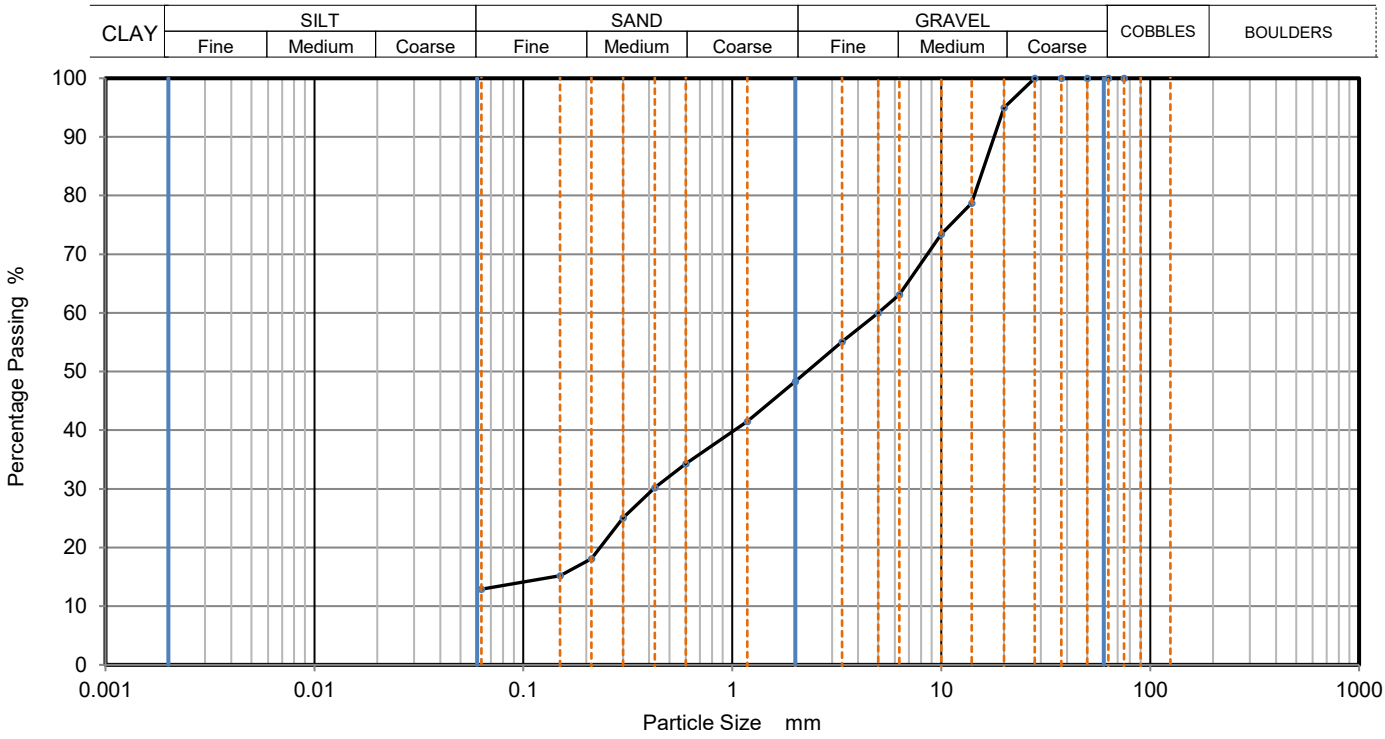
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M04
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Grey silty very sandy medium GRAVEL.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202504259



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	95		
14	79		
10	73		
6.3	63		
5	60		
3.35	55		
2	48		
1.18	42		
0.6	34		
0.425	30		
0.3	25		
0.212	18		
0.15	15		
0.063	13		

Dry Mass of sample, g	767

Sample Proportions	% dry mass
Very coarse	0
Gravel	52
Sand	35
Fines <0.063mm	13

Grading Analysis		
D100	mm	
D60	mm	5.01
D30	mm	0.418
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

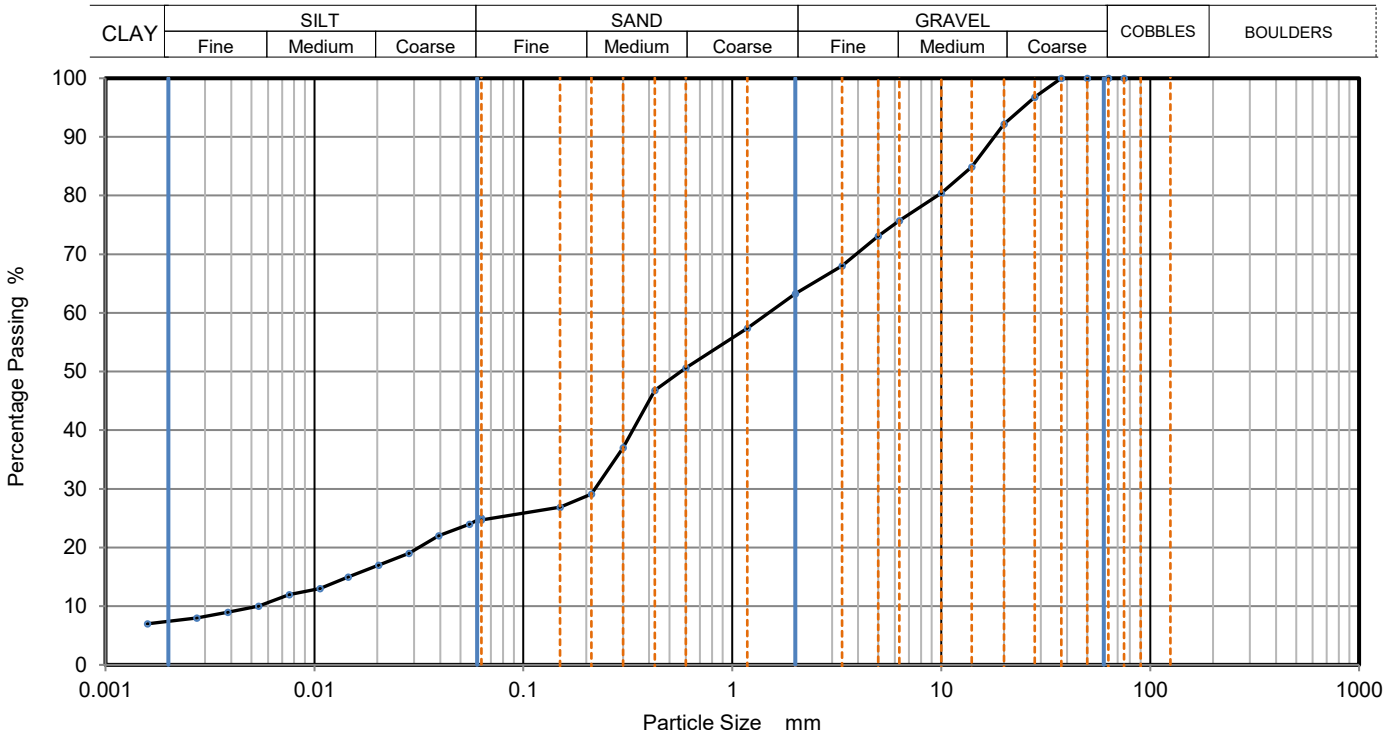
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M05
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown very silty SAND and GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042512



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	25
		0.0553	24
75	100	0.0393	22
63	100	0.0283	19
50	100	0.0203	17
37.5	100	0.0145	15
28	97	0.0106	13
20	92	0.0076	12
14	85	0.0054	10
10	80	0.0038	9
6.3	76	0.0027	8
5	73	0.0016	7
3.35	68		
2	63		
1.18	57		
0.6	51	Particle density (assumed)	
0.425	47	2.65 Mg/m3	
0.3	37		
0.212	29		
0.15	27		
0.063	25		

Dry Mass of sample, g	715

Sample Proportions	% dry mass
Very coarse	0
Gravel	37
Sand	39
Silt	18
Clay	7

Grading Analysis		
D100	mm	
D60	mm	1.49
D30	mm	0.221
D10	mm	0.00524
Uniformity Coefficient		280
Curvature Coefficient		6.3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

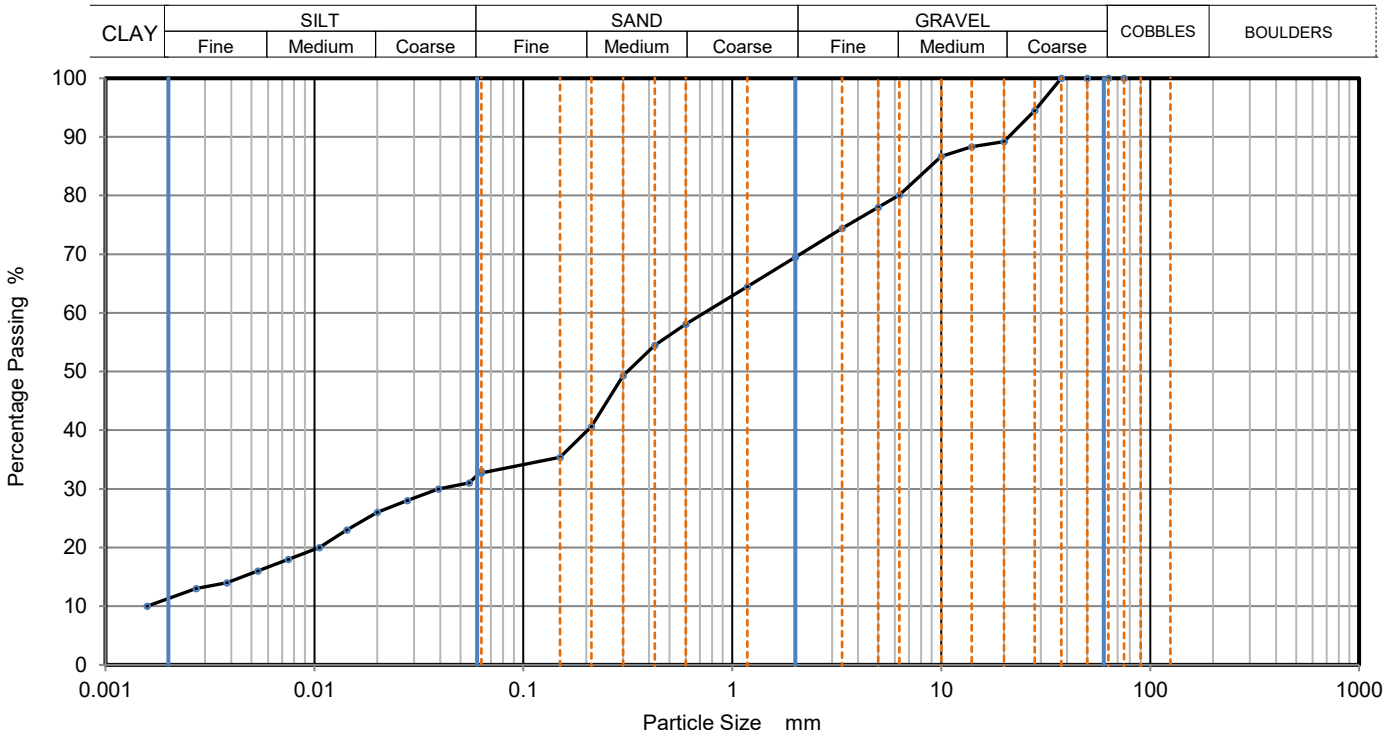
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M05
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Grey very silty SAND and GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042514



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	33
		0.0551	31
75	100	0.0392	30
63	100	0.0279	28
50	100	0.0200	26
37.5	100	0.0143	23
28	95	0.0105	20
20	89	0.0075	18
14	88	0.0054	16
10	87	0.0038	14
6.3	80	0.0027	13
5	78	0.0016	10
3.35	74		
2	70		
1.18	65		
0.6	58	Particle density (assumed)	
0.425	55	2.65 Mg/m3	
0.3	49		
0.212	41		
0.15	35		
0.063	33		

Dry Mass of sample, g	769

Sample Proportions	% dry mass
Very coarse	0
Gravel	31
Sand	37
Silt	22
Clay	11

Grading Analysis		
D100	mm	
D60	mm	0.732
D30	mm	0.0406
D10	mm	0.0016
Uniformity Coefficient		460
Curvature Coefficient		1.4

Remarks

Preparation and testing in accordance with BS1377 unless noted below

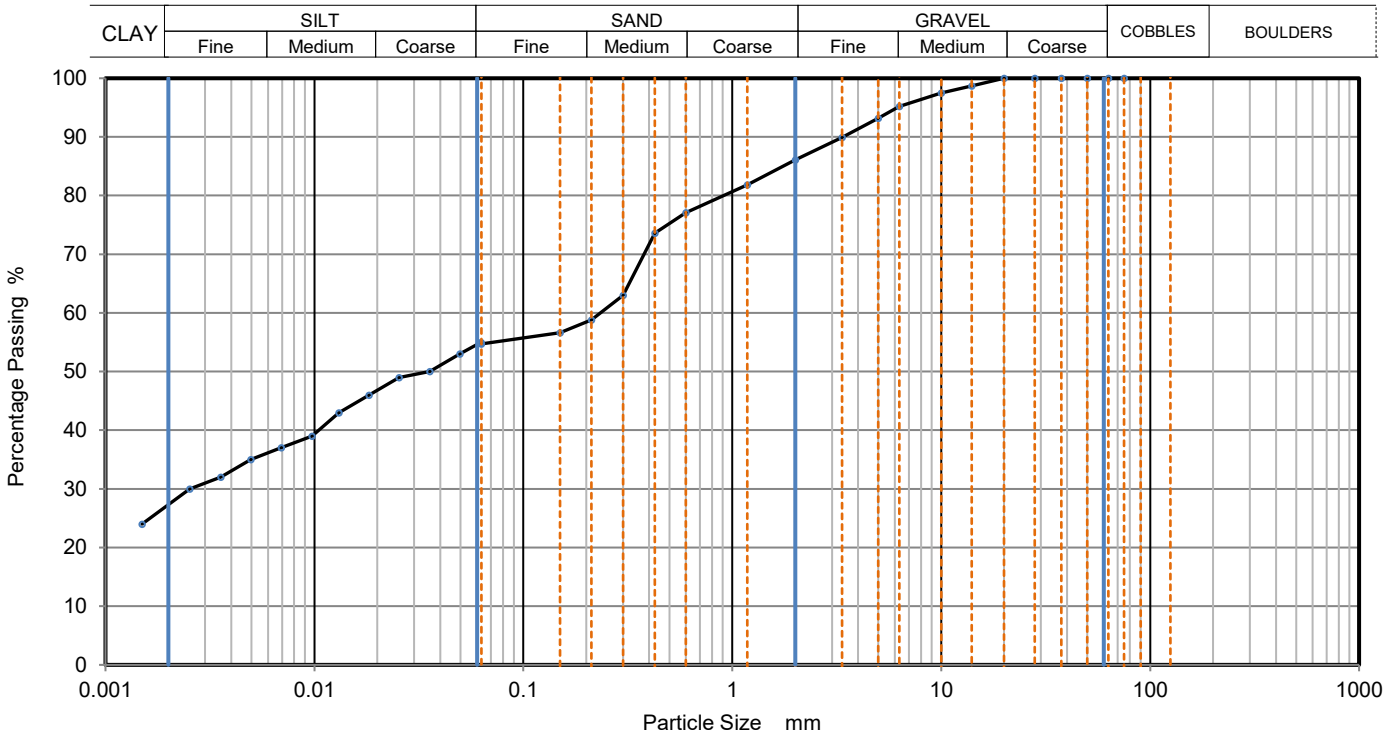
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M06
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042517



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0626	55
		0.0497	53
75	100	0.0357	50
63	100	0.0254	49
50	100	0.0182	46
37.5	100	0.0131	43
28	100	0.0097	39
20	100	0.0069	37
14	99	0.0050	35
10	98	0.0036	32
6.3	95	0.0025	30
5	93	0.0015	24
3.35	90		
2	86		
1.18	82		
0.6	77	Particle density (assumed)	
0.425	74	2.65	Mg/m3
0.3	63		
0.212	59		
0.15	57		
0.063	55		

Dry Mass of sample, g	577

Sample Proportions	% dry mass
Very coarse	0
Gravel	14
Sand	31
Silt	27
Clay	28

Grading Analysis		
D100	mm	
D60	mm	0.234
D30	mm	0.00248
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

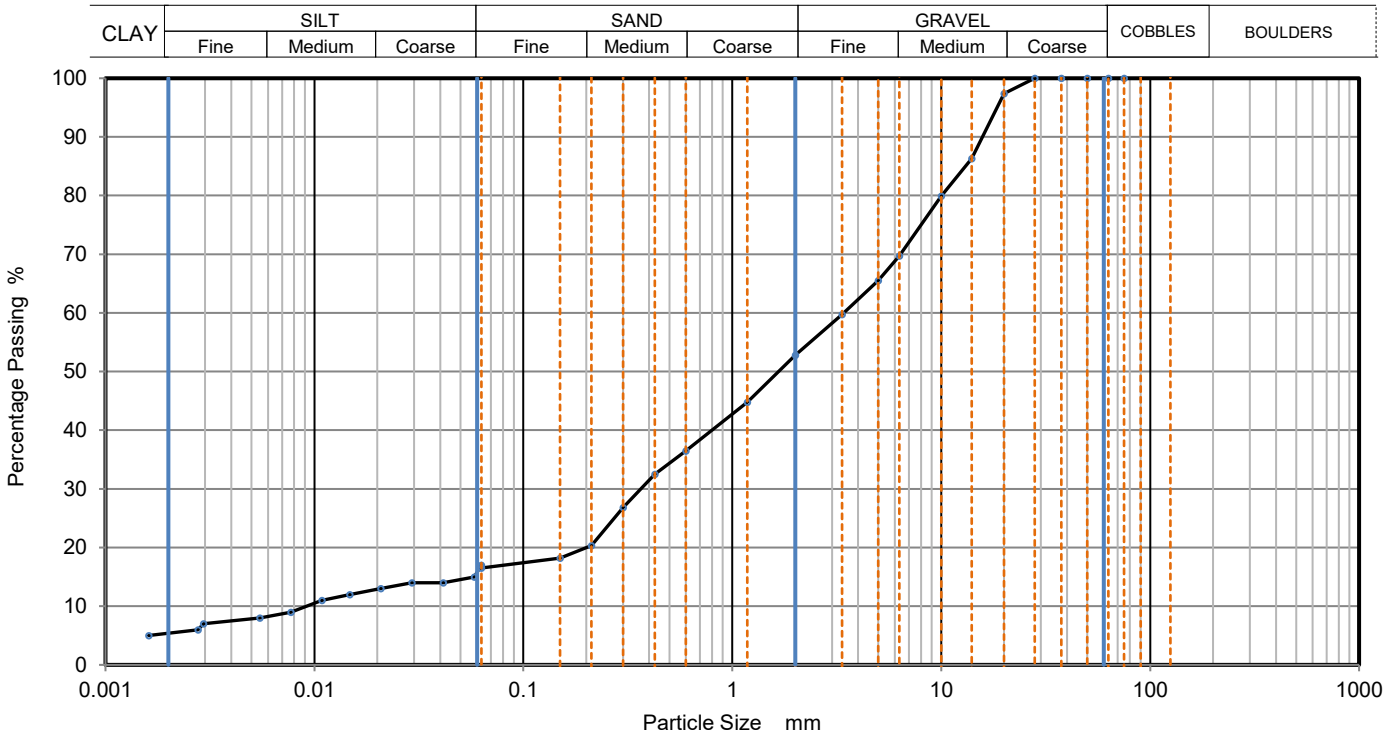
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M06
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Grey silty very sandy medium GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042519



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	17
		0.0582	15
75	100	0.0414	14
63	100	0.0292	14
50	100	0.0208	13
37.5	100	0.0148	12
28	100	0.0109	11
20	97	0.0077	9
14	86	0.0055	8
10	80	0.0029	7
6.3	70	0.0028	6
5	66	0.0016	5
3.35	60		
2	53		
1.18	45		
0.6	37	Particle density (assumed)	
0.425	33	2.65 Mg/m3	
0.3	27		
0.212	20		
0.15	18		
0.063	17		

Dry Mass of sample, g	794

Sample Proportions	% dry mass
Very coarse	0
Gravel	47
Sand	36
Silt	11
Clay	5

Grading Analysis		
D100	mm	
D60	mm	3.41
D30	mm	0.365
D10	mm	0.00911
Uniformity Coefficient		370
Curvature Coefficient		4.3

Remarks

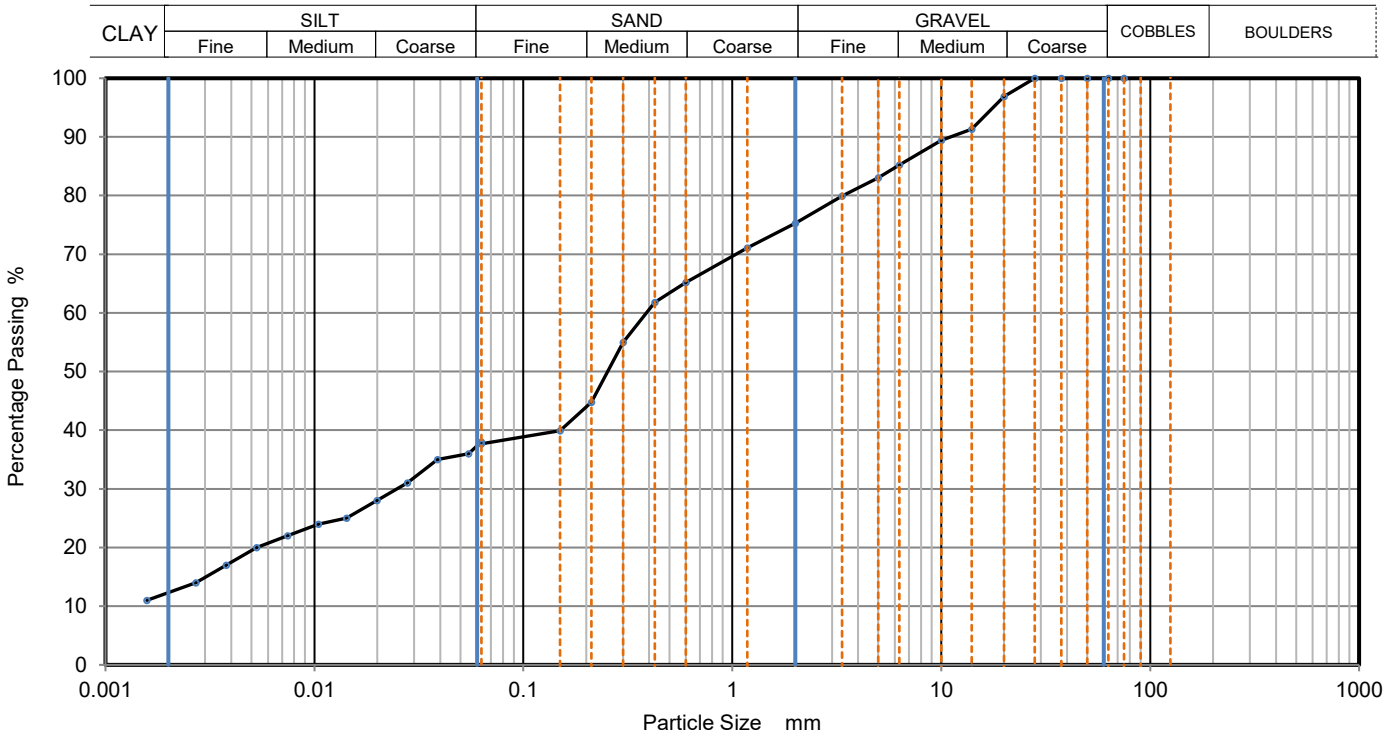
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M07
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown slightly gravelly sandy SILT. Sand is medium.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042522



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	38
		0.0546	36
75	100	0.0389	35
63	100	0.0278	31
50	100	0.0199	28
37.5	100	0.0142	25
28	100	0.0105	24
20	97	0.0074	22
14	91	0.0053	20
10	89	0.0038	17
6.3	85	0.0027	14
5	83	0.0016	11
3.35	80		
2	75		
1.18	71		
0.6	65	Particle density (assumed)	
0.425	62	2.65 Mg/m3	
0.3	55		
0.212	45		
0.15	40		
0.063	38		

Dry Mass of sample, g	721

Sample Proportions	% dry mass
Very coarse	0
Gravel	25
Sand	38
Silt	25
Clay	12

Grading Analysis		
D100	mm	
D60	mm	0.387
D30	mm	0.0239
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

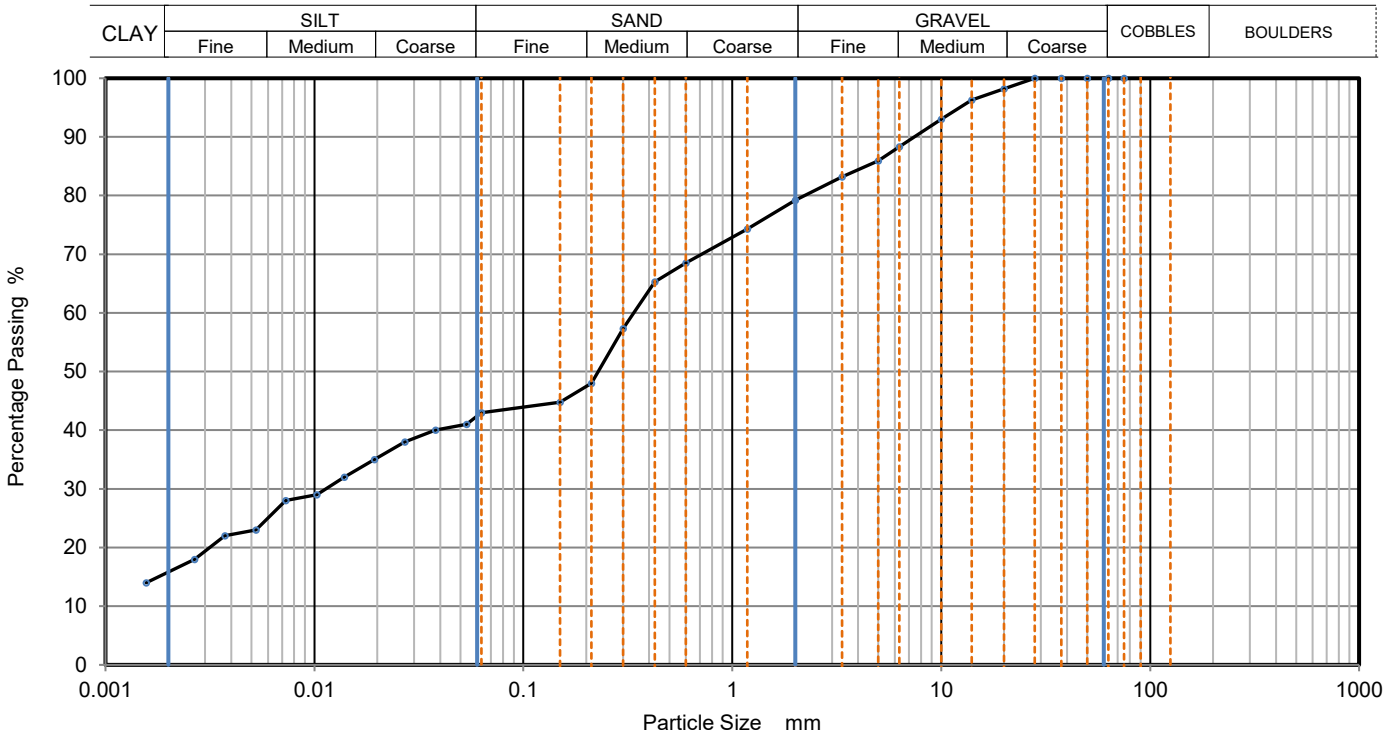
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M07
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown slightly gravelly sandy SILT. Sand is medium.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042524



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	43
		0.0534	41
75	100	0.0380	40
63	100	0.0271	38
50	100	0.0194	35
37.5	100	0.0139	32
28	100	0.0103	29
20	98	0.0073	28
14	96	0.0053	23
10	93	0.0037	22
6.3	88	0.0027	18
5	86	0.0016	14
3.35	83		
2	79		
1.18	74		
0.6	69	Particle density (assumed)	
0.425	65	2.65 Mg/m3	
0.3	57		
0.212	48		
0.15	45		
0.063	43		

Dry Mass of sample, g	835

Sample Proportions	% dry mass
Very coarse	0
Gravel	21
Sand	36
Silt	27
Clay	16

Grading Analysis		
D100	mm	
D60	mm	0.338
D30	mm	0.0111
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

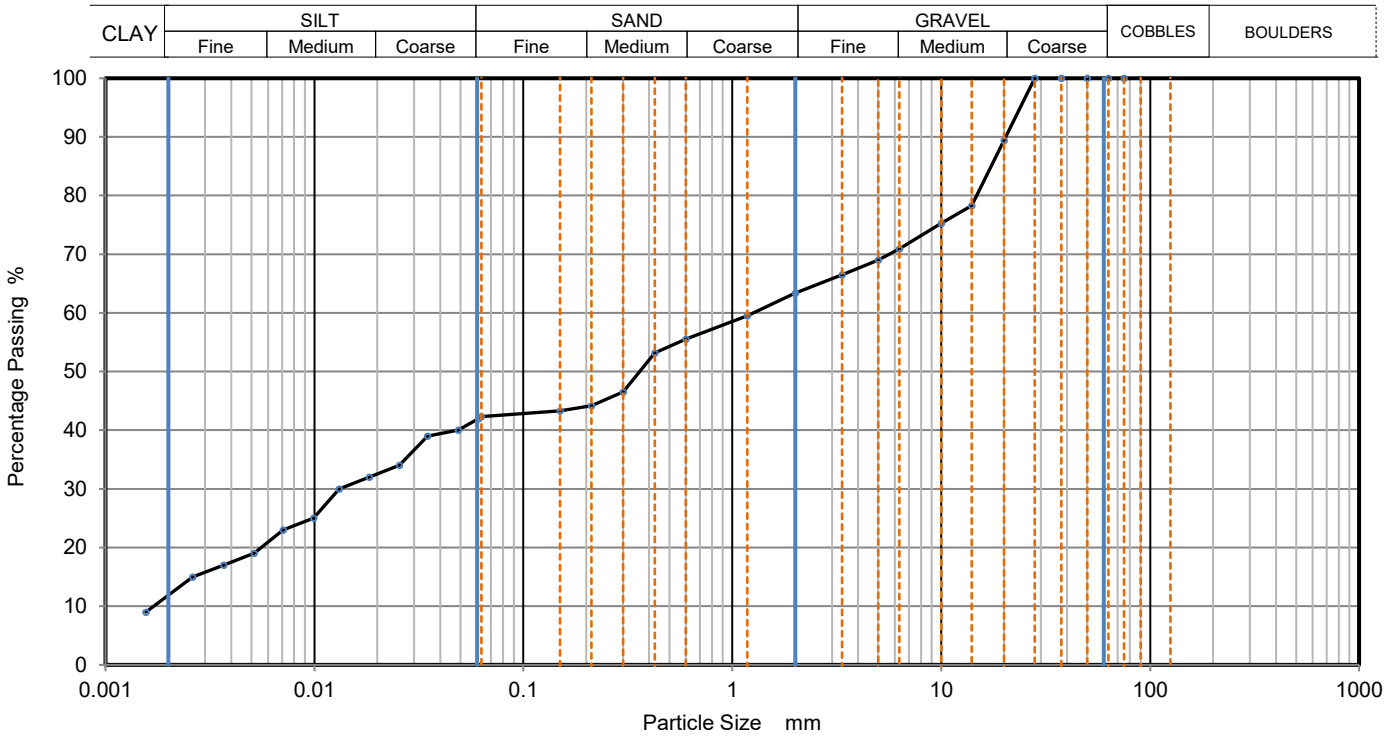
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M08
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly sandy gravelly SILT.			Depth, m	0.30
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042527



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0611	42
		0.0488	40
75	100	0.0348	39
63	100	0.0255	34
50	100	0.0183	32
37.5	100	0.0131	30
28	100	0.0099	25
20	89	0.0071	23
14	78	0.0051	19
10	75	0.0037	17
6.3	71	0.0026	15
5	69	0.0016	9
3.35	67		
2	63		
1.18	60		
0.6	56	Particle density (assumed)	
0.425	53	2.65 Mg/m3	
0.3	47		
0.212	44		
0.15	43		
0.063	42		

Dry Mass of sample, g	665

Sample Proportions	% dry mass
Very coarse	0
Gravel	37
Sand	21
Silt	30
Clay	12

Grading Analysis		
D100	mm	
D60	mm	1.26
D30	mm	0.0133
D10	mm	0.00166
Uniformity Coefficient		760
Curvature Coefficient		0.085

Remarks

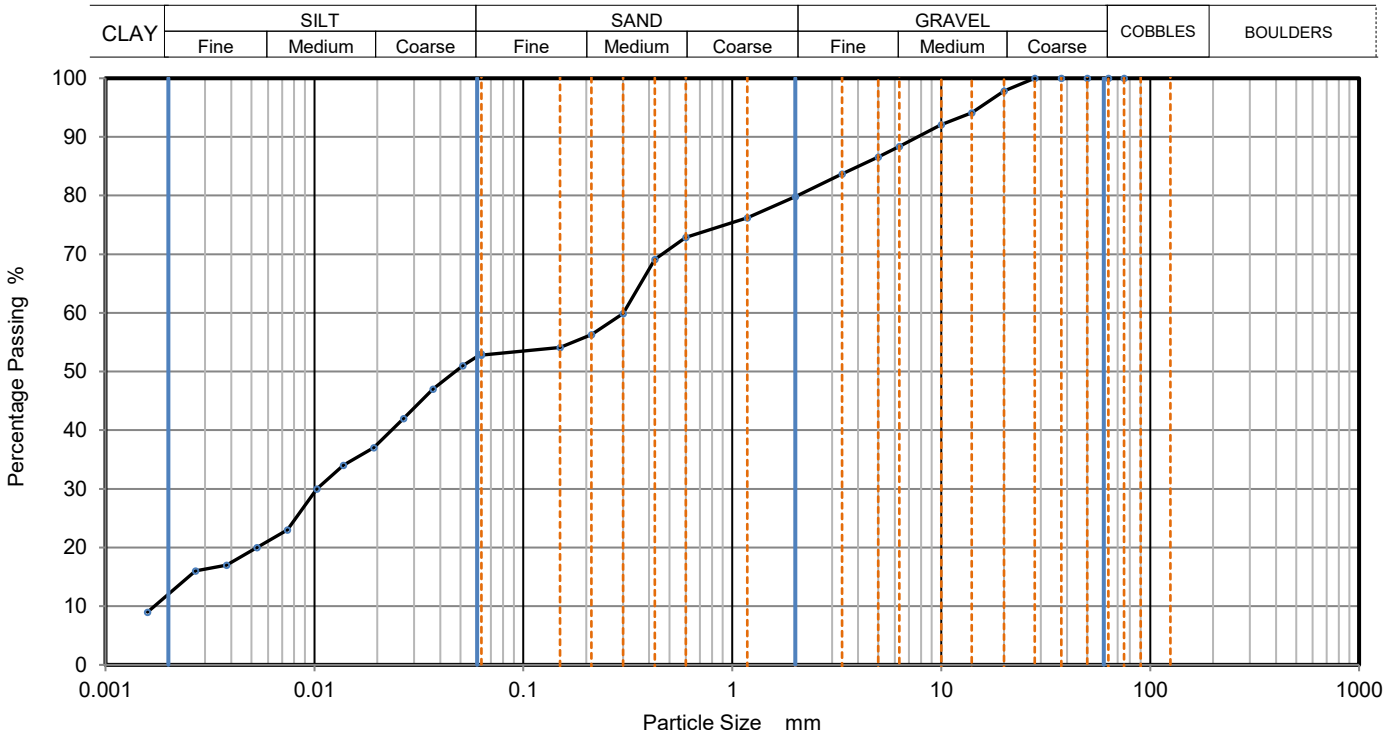
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M09
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042530



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	53
		0.0512	51
75	100	0.0370	47
63	100	0.0267	42
50	100	0.0192	37
37.5	100	0.0138	34
28	100	0.0102	30
20	98	0.0074	23
14	94	0.0053	20
10	92	0.0038	17
6.3	88	0.0027	16
5	87	0.0016	9
3.35	84		
2	80		
1.18	76		
0.6	73	Particle density (assumed)	
0.425	69	2.65	Mg/m3
0.3	60		
0.212	56		
0.15	54		
0.063	53		

Dry Mass of sample, g	577

Sample Proportions	% dry mass
Very coarse	0
Gravel	20
Sand	27
Silt	41
Clay	12

Grading Analysis		
D100	mm	
D60	mm	0.301
D30	mm	0.0106
D10	mm	0.00168
Uniformity Coefficient		180
Curvature Coefficient		0.22

Remarks

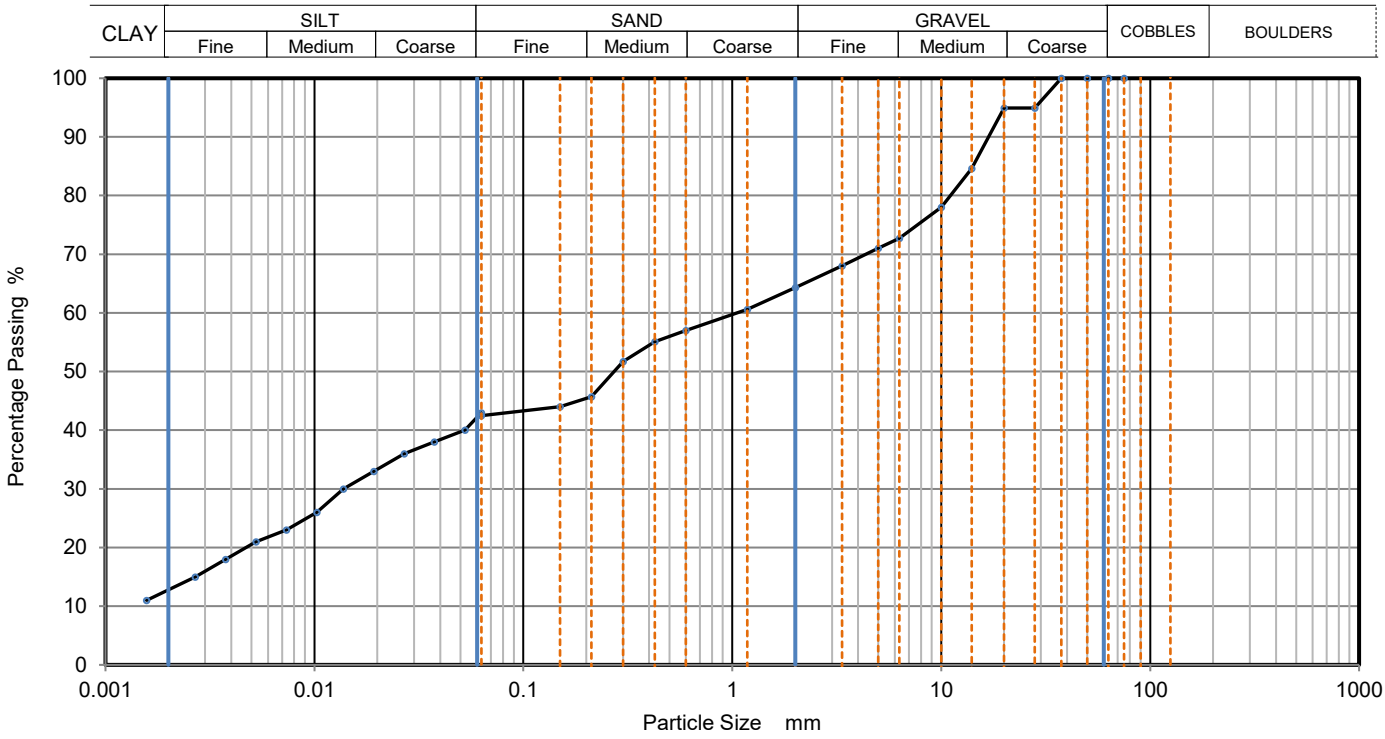
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**	Job Ref	**2024SO105**
		Borehole/Pit No.	TP-M10
Site Name	Lot 1, Lough Talt	Sample No.	1
Soil Description	Dark brown slightly sandy gravelly SILT. Gravel is medium.	Depth, m	0.50
Specimen Reference	Specimen Depth: m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5	KeyLAB ID	IDL12025042532



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	43
		0.0526	40
75	100	0.0375	38
63	100	0.0269	36
50	100	0.0192	33
37.5	100	0.0138	30
28	95	0.0102	26
20	95	0.0073	23
14	85	0.0052	21
10	78	0.0038	18
6.3	73	0.0027	15
5	71	0.0016	11
3.35	68		
2	64		
1.18	61		
0.6	57	Particle density (assumed)	
0.425	55	2.65 Mg/m3	
0.3	52		
0.212	46		
0.15	44		
0.063	43		

Dry Mass of sample, g	703

Sample Proportions	% dry mass
Very coarse	0
Gravel	36
Sand	22
Silt	30
Clay	13

Grading Analysis		
D100	mm	
D60	mm	1.05
D30	mm	0.0136
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

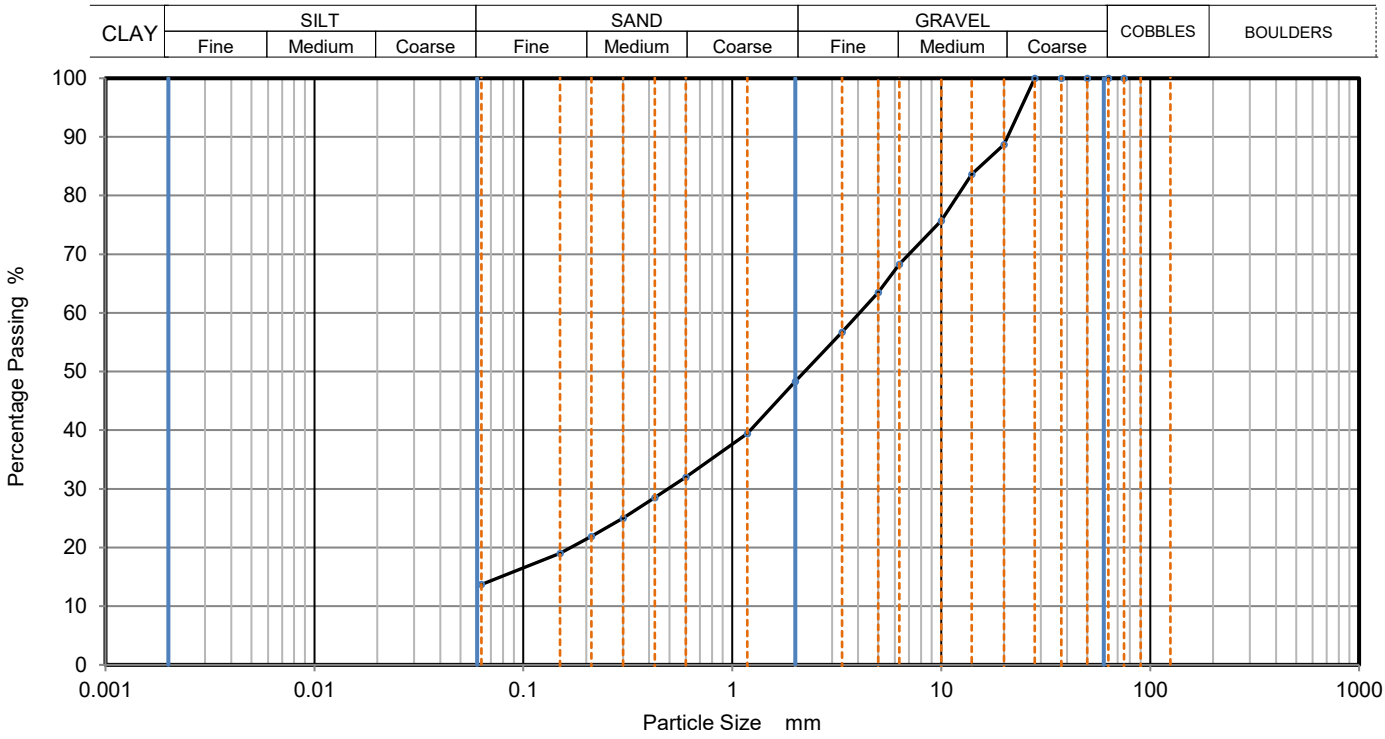
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M100
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty very sandy fine and medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080743



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	89		
14	84		
10	76		
6.3	68		
5	64		
3.35	57		
2	48		
1.18	39		
0.6	32		
0.425	29		
0.3	25		
0.212	22		
0.15	19		
0.063	14		

Dry Mass of sample, g: 804

Sample Proportions	% dry mass
Very coarse	0
Gravel	52
Sand	35
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	4.08
D30	mm	0.492
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

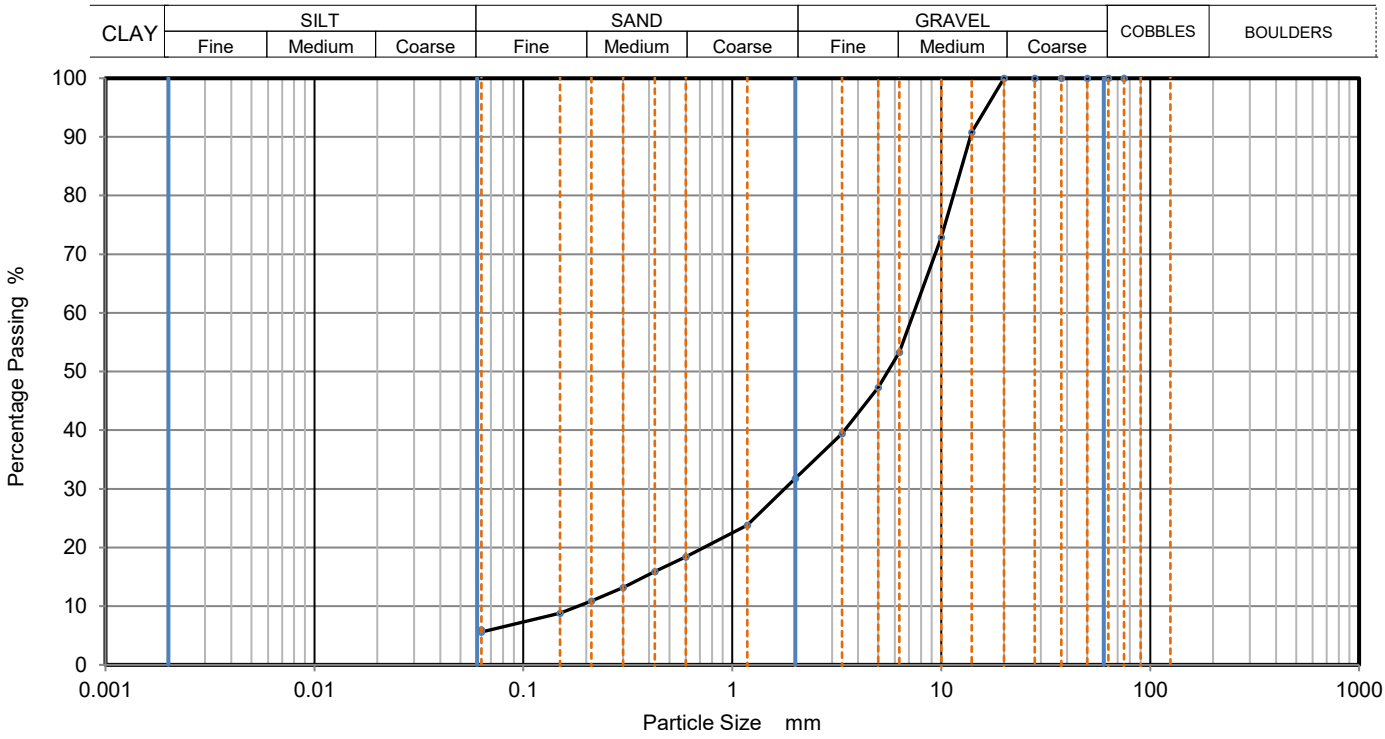
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M100
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Dark brown silty very sandy medium GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025080744



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	6
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	91		
10	73		
6.3	53		
5	47		
3.35	39		
2	32		
1.18	24		
0.6	18	Particle density (assumed)	
0.425	16	2.65	Mg/m3
0.3	13		
0.212	11		
0.15	9		
0.063	6		

Dry Mass of sample, g: 321

Sample Proportions	% dry mass
Very coarse	0
Gravel	68
Sand	26
Fines <0.063mm	6

Grading Analysis		
D100	mm	
D60	mm	7.37
D30	mm	1.78
D10	mm	0.183
Uniformity Coefficient		40
Curvature Coefficient		2.3

Remarks

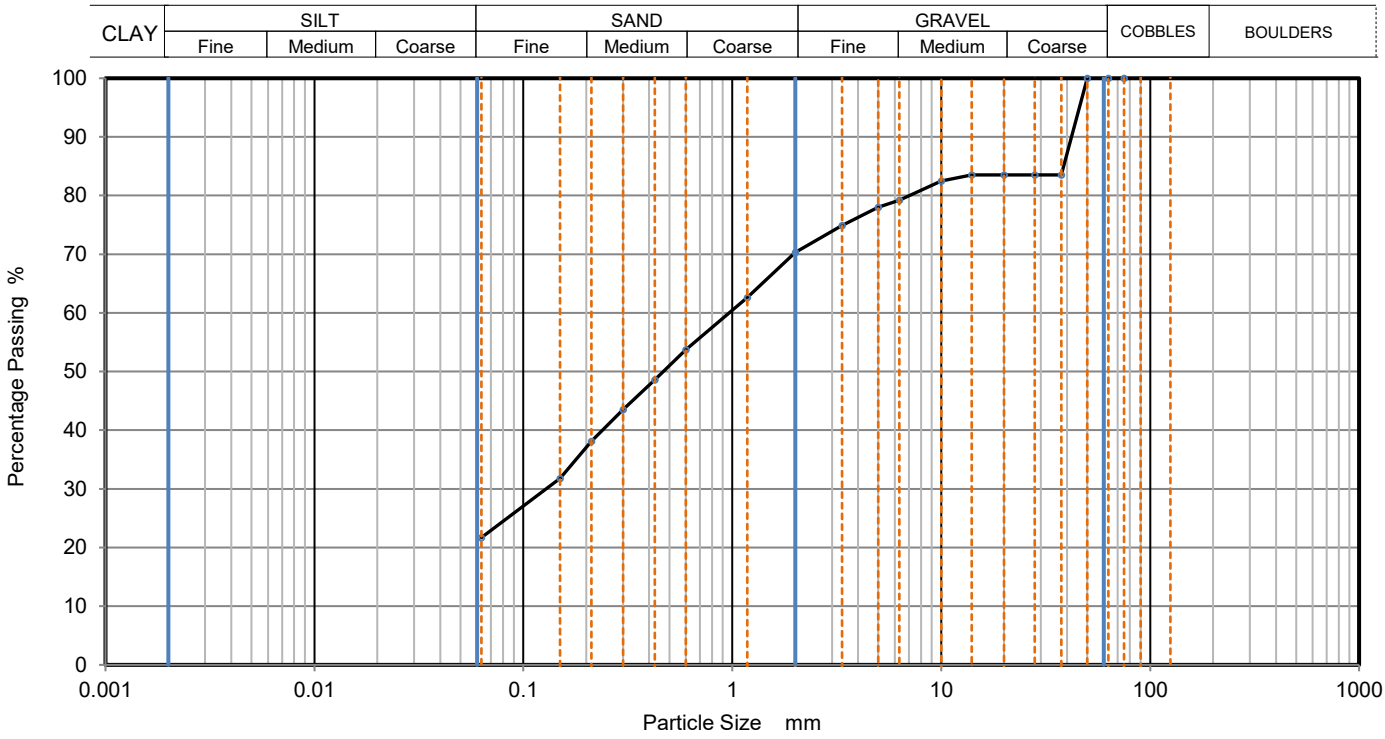
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M100
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Grey very silty very gravelly SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080745



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	84		
28	84		
20	84		
14	84		
10	83		
6.3	79		
5	78		
3.35	75		
2	70		
1.18	63		
0.6	54		
0.425	49		
0.3	44		
0.212	38		
0.15	32		
0.063	22		

Dry Mass of sample, g	649

Sample Proportions	% dry mass
Very coarse	0
Gravel	30
Sand	49
Fines <0.063mm	22

Grading Analysis		
D100	mm	
D60	mm	0.968
D30	mm	0.129
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

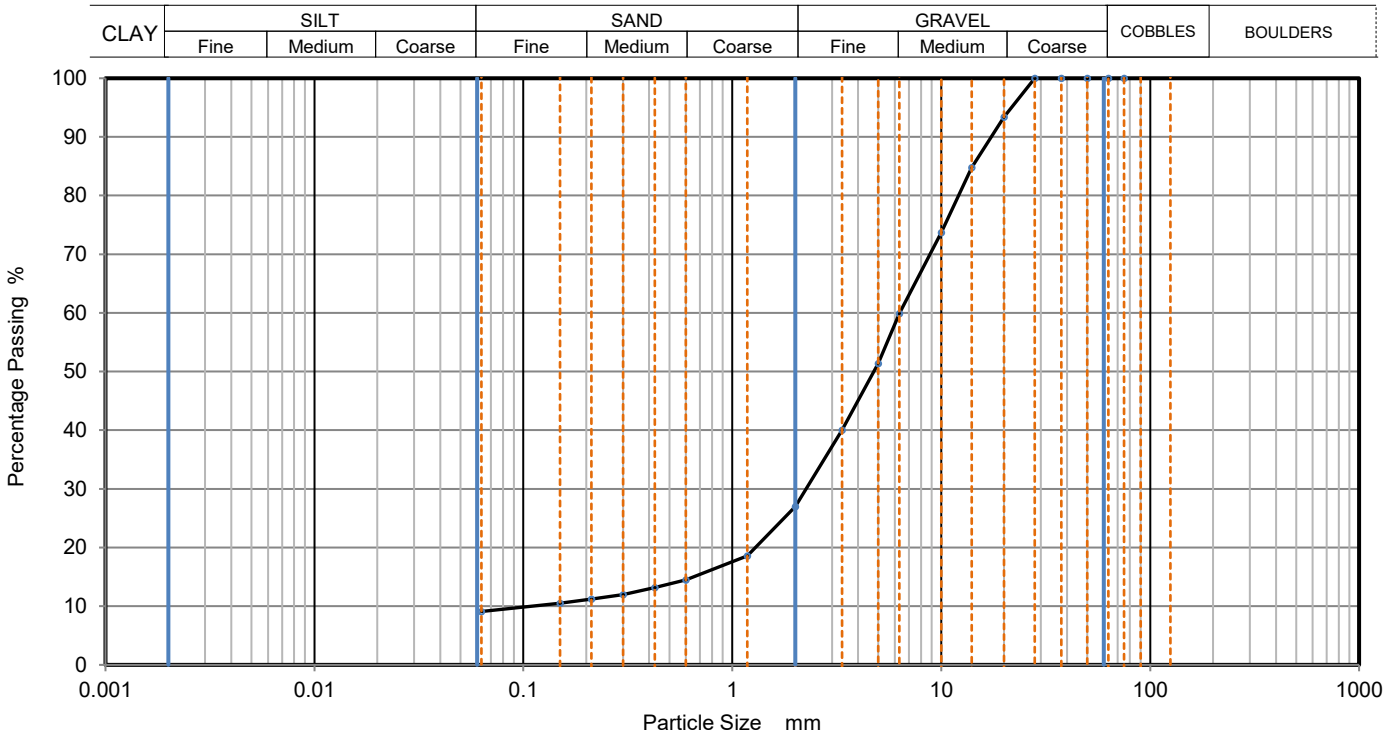
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M101
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty sandy fine and medium GRAVEL.			Depth, m	0.60
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080746



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	93		
14	85		
10	74		
6.3	60		
5	51		
3.35	40		
2	27		
1.18	19		
0.6	15		
0.425	13		
0.3	12		
0.212	11		
0.15	11		
0.063	9		

Dry Mass of sample, g	706

Sample Proportions	% dry mass
Very coarse	0
Gravel	73
Sand	18
Fines <0.063mm	9

Grading Analysis		
D100	mm	
D60	mm	6.32
D30	mm	2.26
D10	mm	0.11
Uniformity Coefficient		57
Curvature Coefficient		7.3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

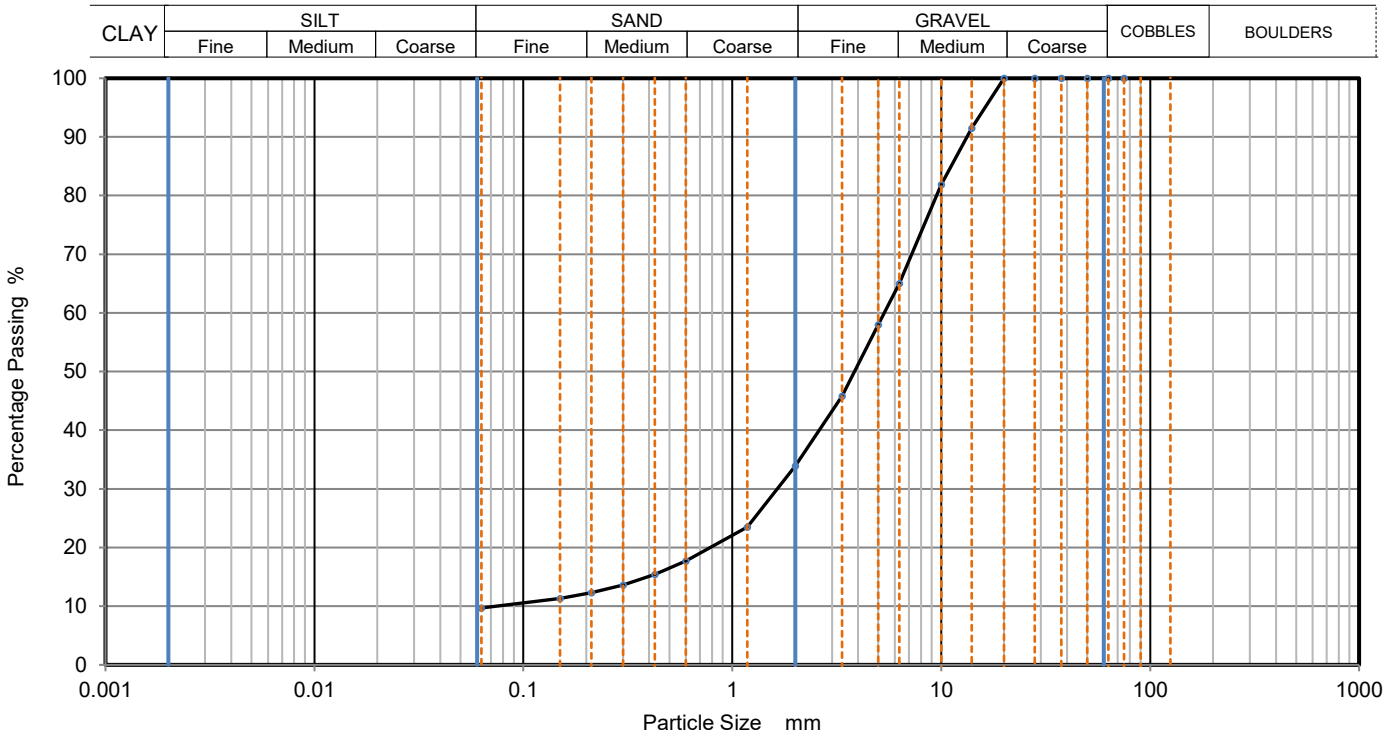
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M101
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Light brown silty very sandy fine and medium GRAVEL.			Depth, m	1.60
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080747



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	92		
10	82		
6.3	65		
5	58		
3.35	46		
2	34		
1.18	24		
0.6	18		
0.425	15		
0.3	14		
0.212	12		
0.15	11		
0.063	10		

Dry Mass of sample, g	734

Sample Proportions	% dry mass
Very coarse	0
Gravel	66
Sand	24
Fines <0.063mm	10

Grading Analysis		
D100	mm	
D60	mm	5.35
D30	mm	1.64
D10	mm	0.0752
Uniformity Coefficient		71
Curvature Coefficient		6.7

Remarks

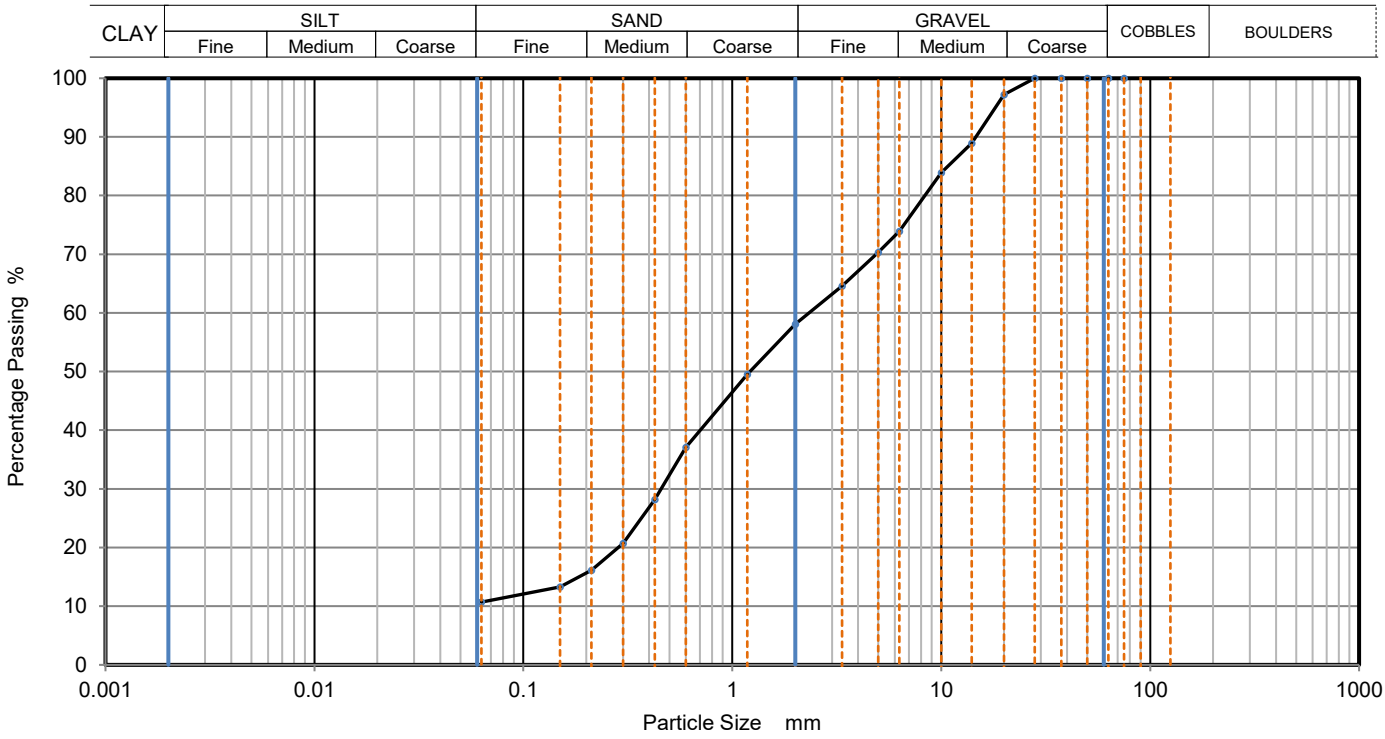
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M101
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown silty medium and corse SAND and medium GRAVEL.			Depth, m	2.60
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080748



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	89		
10	84		
6.3	74		
5	70		
3.35	65		
2	58		
1.18	50		
0.6	37		
0.425	28		
0.3	21		
0.212	16		
0.15	13		
0.063	11		

Dry Mass of sample, g	676

Sample Proportions	% dry mass
Very coarse	0
Gravel	42
Sand	47
Fines <0.063mm	11

Grading Analysis		
D100	mm	
D60	mm	2.33
D30	mm	0.456
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

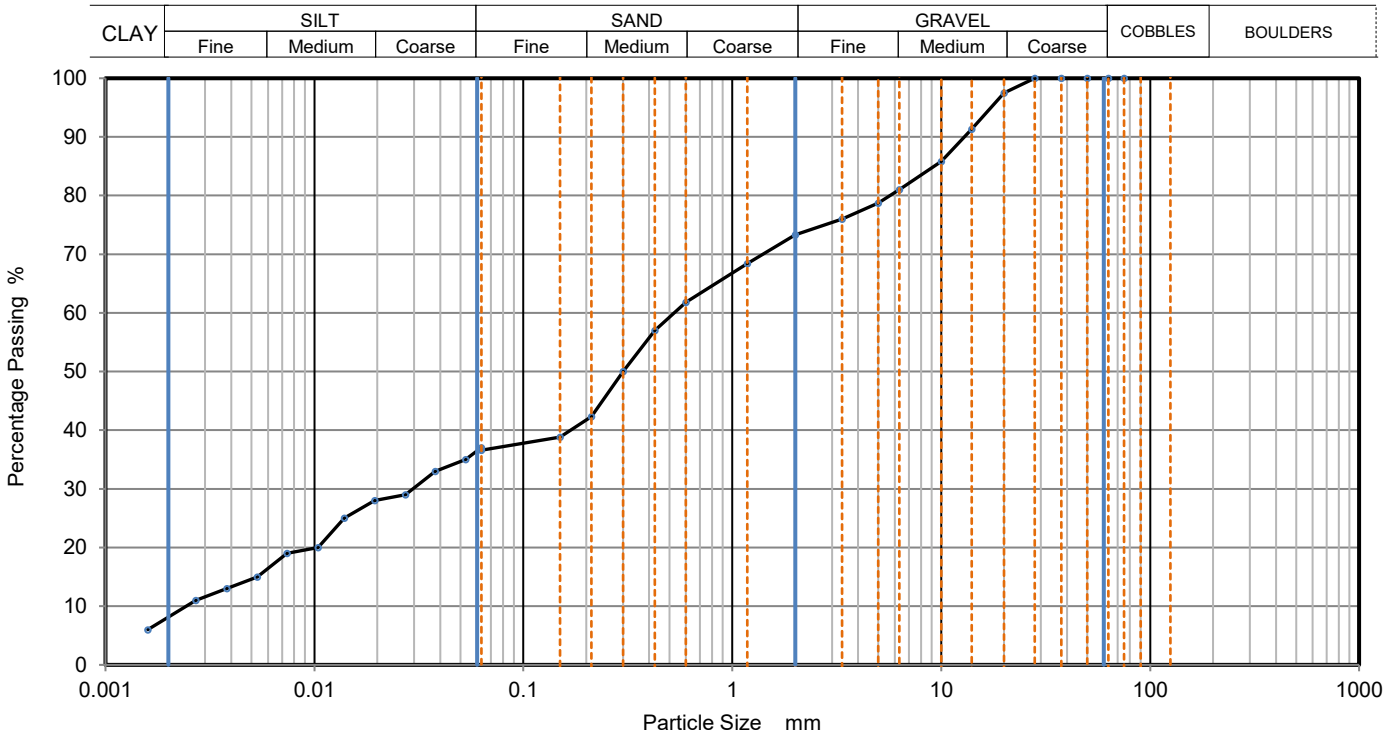
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M11
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly gravelly sandy SILT. Sand is medium.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042535



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	37
		0.0529	35
75	100	0.0379	33
63	100	0.0273	29
50	100	0.0194	28
37.5	100	0.0139	25
28	100	0.0104	20
20	98	0.0074	19
14	91	0.0053	15
10	86	0.0038	13
6.3	81	0.0027	11
5	79	0.0016	6
3.35	76		
2	73		
1.18	68		
0.6	62	Particle density (assumed)	
0.425	57	2.65 Mg/m3	
0.3	50		
0.212	42		
0.15	39		
0.063	37		

Dry Mass of sample, g	723

Sample Proportions	% dry mass
Very coarse	0
Gravel	27
Sand	37
Silt	28
Clay	9

Grading Analysis		
D100	mm	
D60	mm	0.529
D30	mm	0.0297
D10	mm	0.00235
Uniformity Coefficient		230
Curvature Coefficient		0.71

Remarks

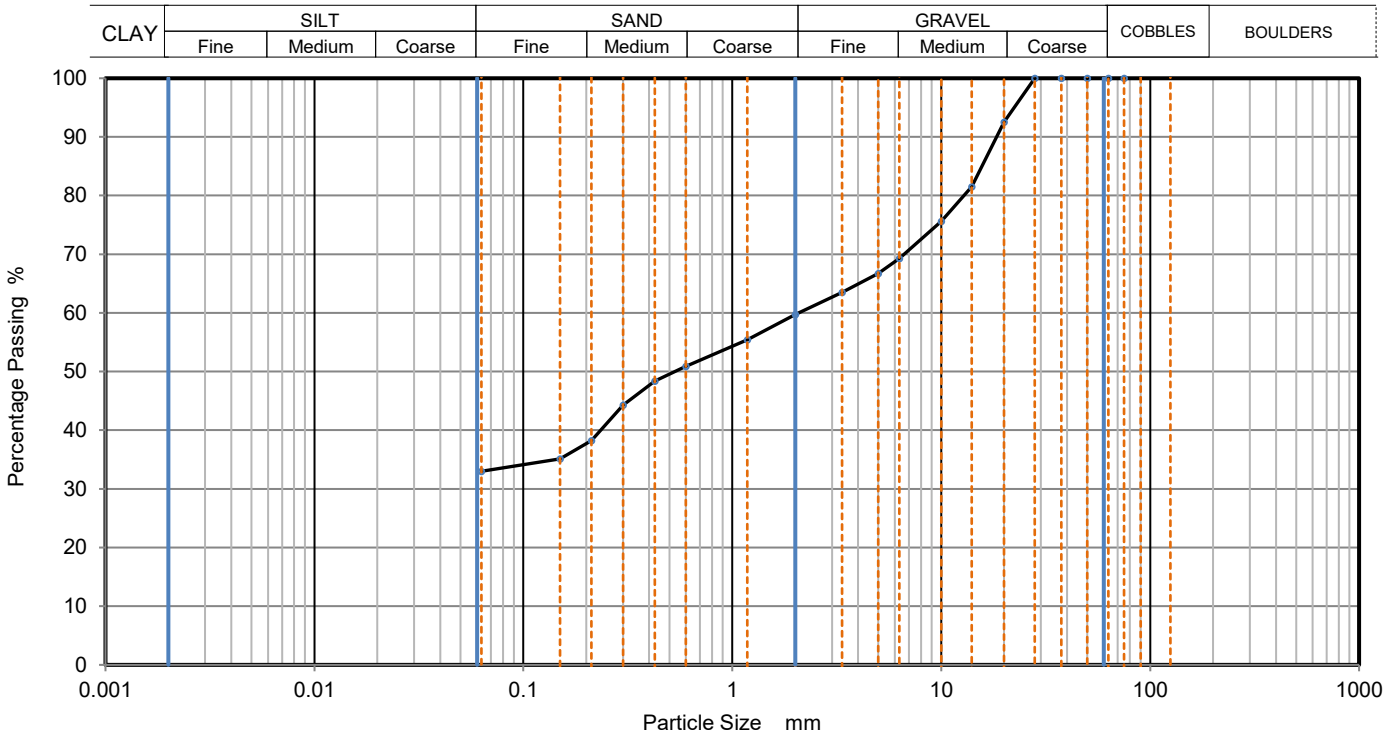
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M11
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Orangish-light brown very sandy very silty medium GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042537



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	93		
14	82		
10	76		
6.3	69		
5	67		
3.35	64		
2	60		
1.18	55		
0.6	51		
0.425	48		
0.3	44		
0.212	38		
0.15	35		
0.063	33		

Dry Mass of sample, g	713

Sample Proportions	% dry mass
Very coarse	0
Gravel	40
Sand	27
Fines <0.063mm	33

Grading Analysis		
D100	mm	
D60	mm	2.07
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

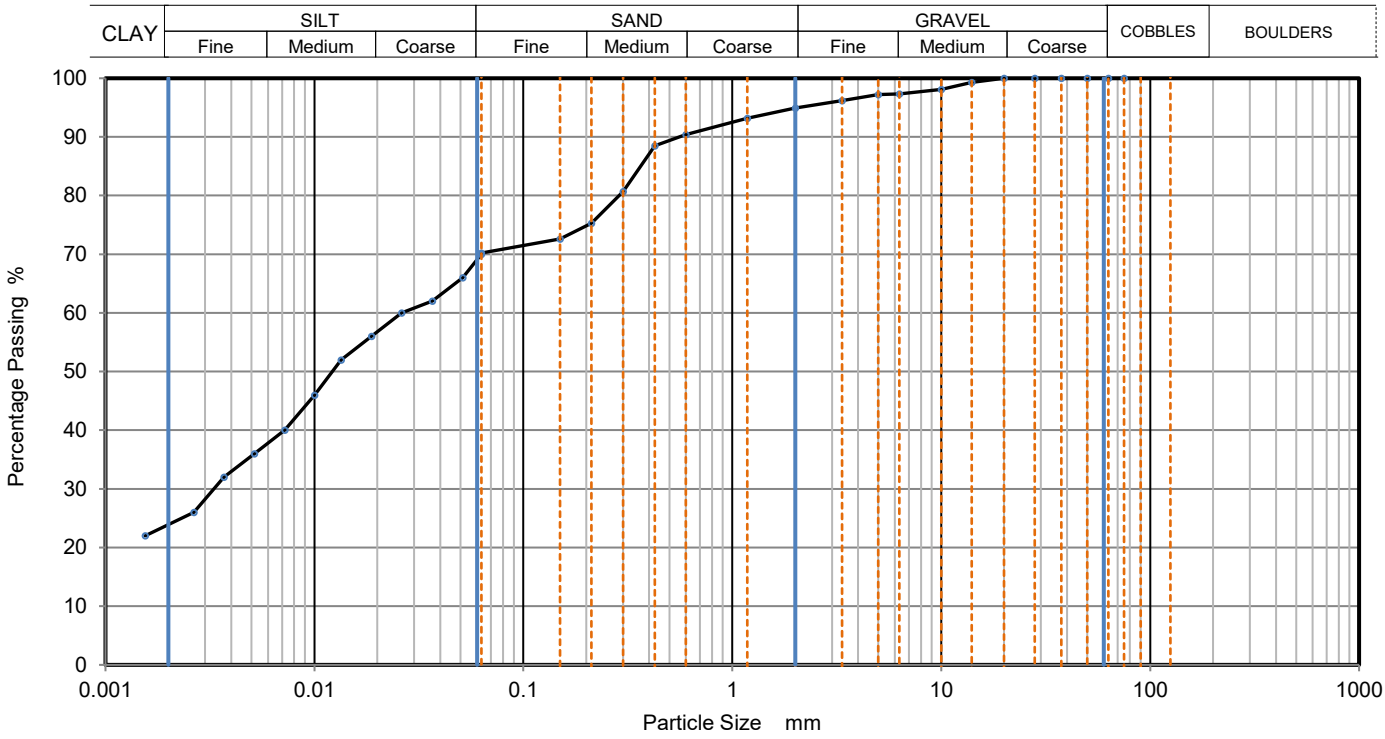
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M12
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Orangish-brown slightly gravelly slightly sandy SILT.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042541



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	70
		0.0512	66
75	100	0.0367	62
63	100	0.0261	60
50	100	0.0187	56
37.5	100	0.0134	52
28	100	0.0100	46
20	100	0.0072	40
14	99	0.0052	36
10	98	0.0037	32
6.3	97	0.0027	26
5	97	0.0015	22
3.35	96		
2	95		
1.18	93		
0.6	90	Particle density (assumed)	
0.425	89	2.65 Mg/m3	
0.3	81		
0.212	75		
0.15	73		
0.063	70		

Dry Mass of sample, g	607

Sample Proportions	% dry mass
Very coarse	0
Gravel	5
Sand	25
Silt	46
Clay	24

Grading Analysis		
D100	mm	
D60	mm	0.0258
D30	mm	0.00329
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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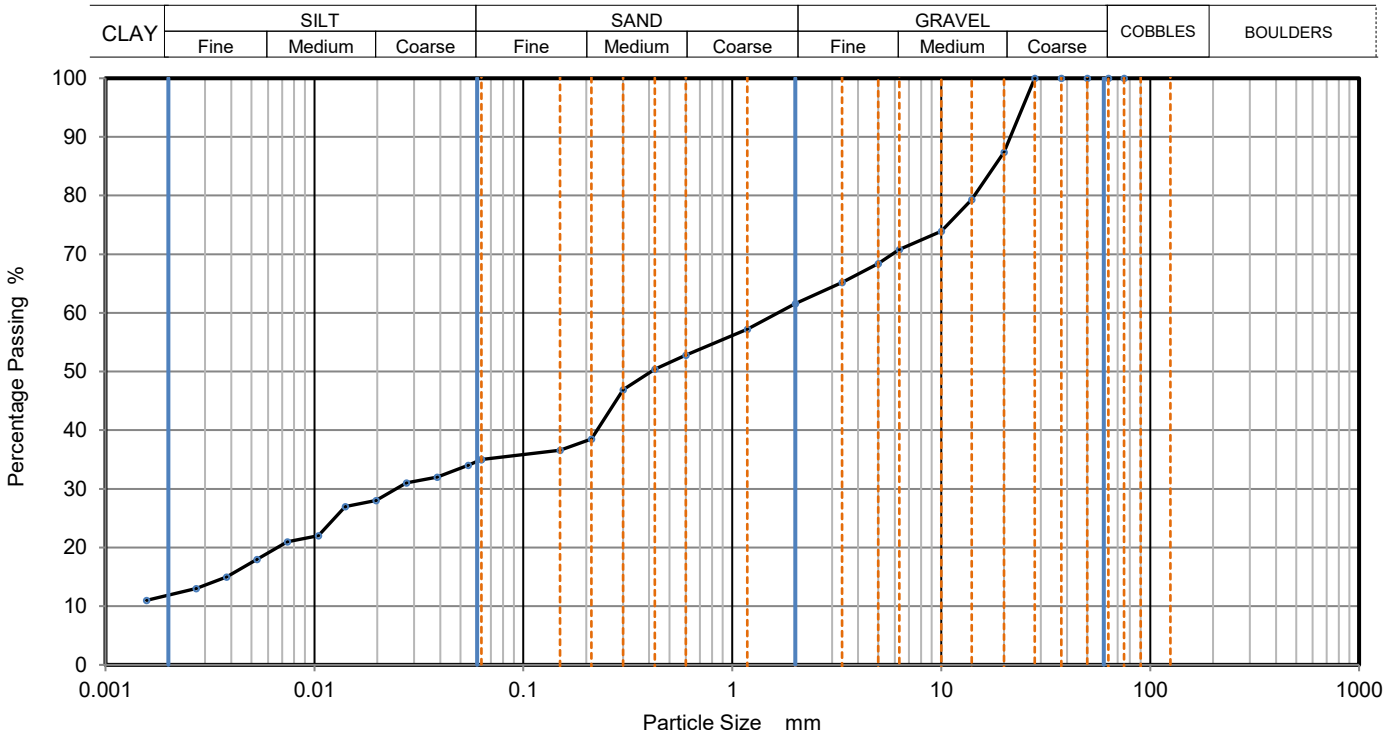
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M12
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Light brown slightly sandy gravelly SILT.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042543



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	35
		0.0544	34
75	100	0.0387	32
63	100	0.0275	31
50	100	0.0197	28
37.5	100	0.0140	27
28	100	0.0104	22
20	87	0.0074	21
14	79	0.0053	18
10	74	0.0038	15
6.3	71	0.0027	13
5	68	0.0016	11
3.35	65		
2	62		
1.18	57		
0.6	53	Particle density (assumed)	
0.425	50	2.65	Mg/m3
0.3	47		
0.212	39		
0.15	37		
0.063	35		

Dry Mass of sample, g	747

Sample Proportions	% dry mass
Very coarse	0
Gravel	38
Sand	27
Silt	23
Clay	12

Grading Analysis		
D100	mm	
D60	mm	1.65
D30	mm	0.025
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

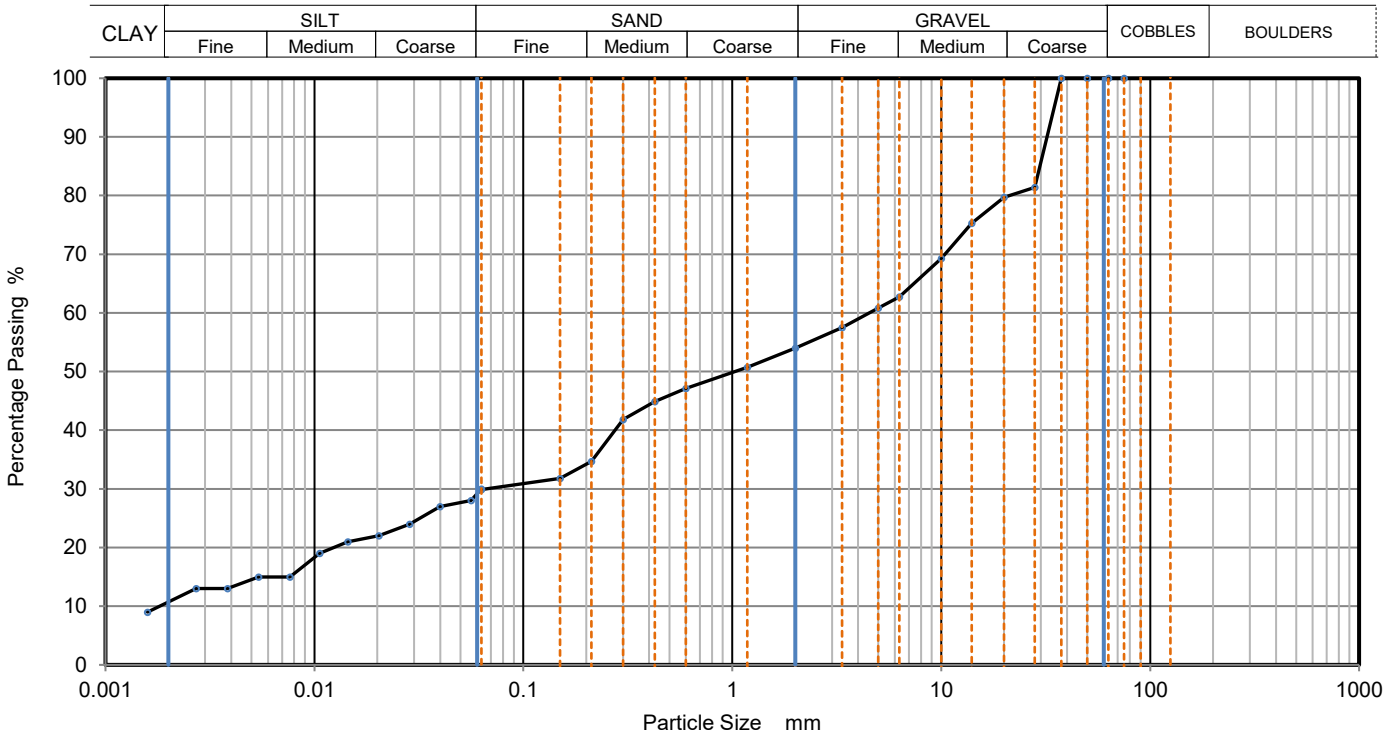
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M13
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Dark grey very sandy very silty medium and coarse GRAVEL.			Depth, m	1.80
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042547



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	30
		0.0561	28
75	100	0.0399	27
63	100	0.0286	24
50	100	0.0203	22
37.5	100	0.0144	21
28	81	0.0106	19
20	80	0.0076	15
14	75	0.0054	15
10	69	0.0038	13
6.3	63	0.0027	13
5	61	0.0016	9
3.35	58		
2	54		
1.18	51		
0.6	47	Particle density (assumed)	
0.425	45	2.65 Mg/m3	
0.3	42		
0.212	35		
0.15	32		
0.063	30		

Dry Mass of sample, g	847

Sample Proportions	% dry mass
Very coarse	0
Gravel	46
Sand	24
Silt	19
Clay	11

Grading Analysis		
D100	mm	
D60	mm	4.54
D30	mm	0.0661
D10	mm	0.0018
Uniformity Coefficient		2500
Curvature Coefficient		0.54

Remarks

Preparation and testing in accordance with BS1377 unless noted below

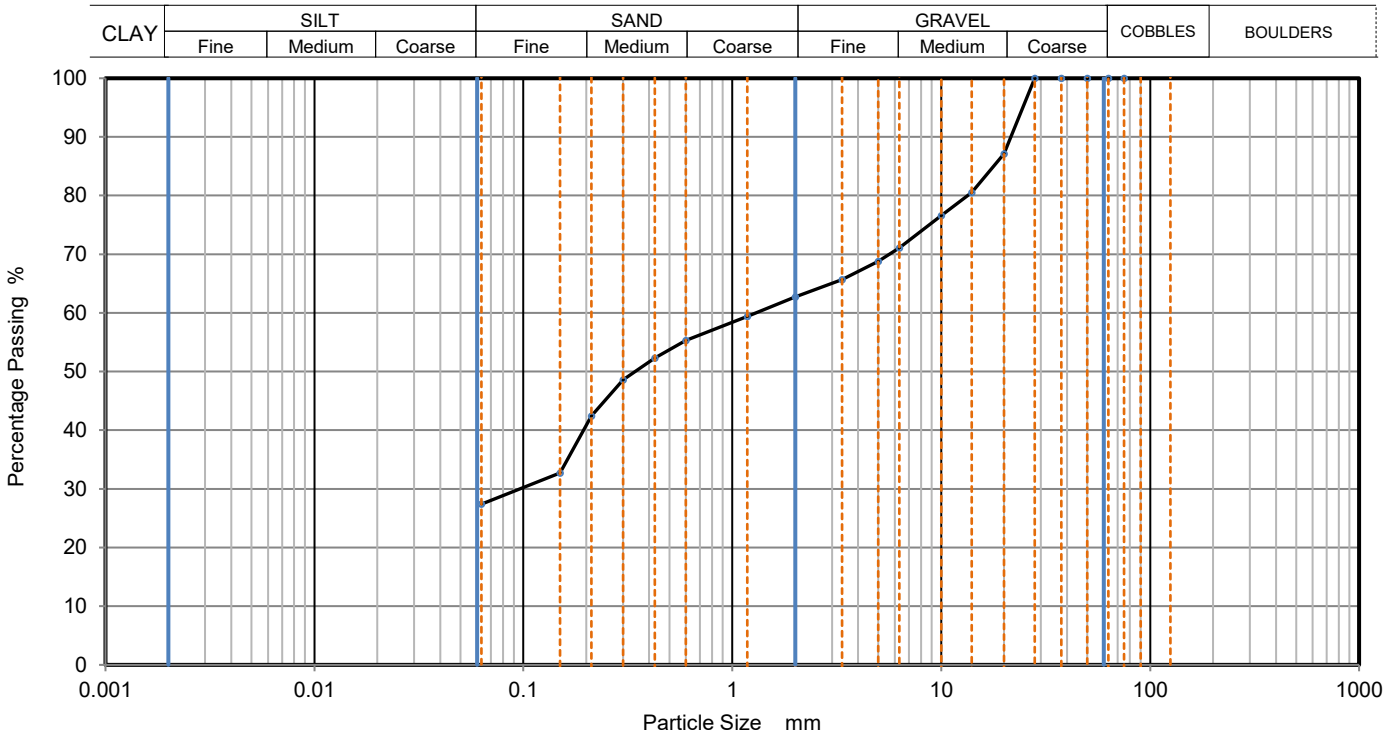
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M14
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown very silty SAND and GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042549



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	87		
14	81		
10	77		
6.3	71		
5	69		
3.35	66		
2	63		
1.18	59		
0.6	55		
0.425	52		
0.3	49		
0.212	42		
0.15	33		
0.063	27		

Dry Mass of sample, g	614

Sample Proportions	% dry mass
Very coarse	0
Gravel	37
Sand	35
Fines <0.063mm	27

Grading Analysis		
D100	mm	
D60	mm	1.3
D30	mm	0.0963
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

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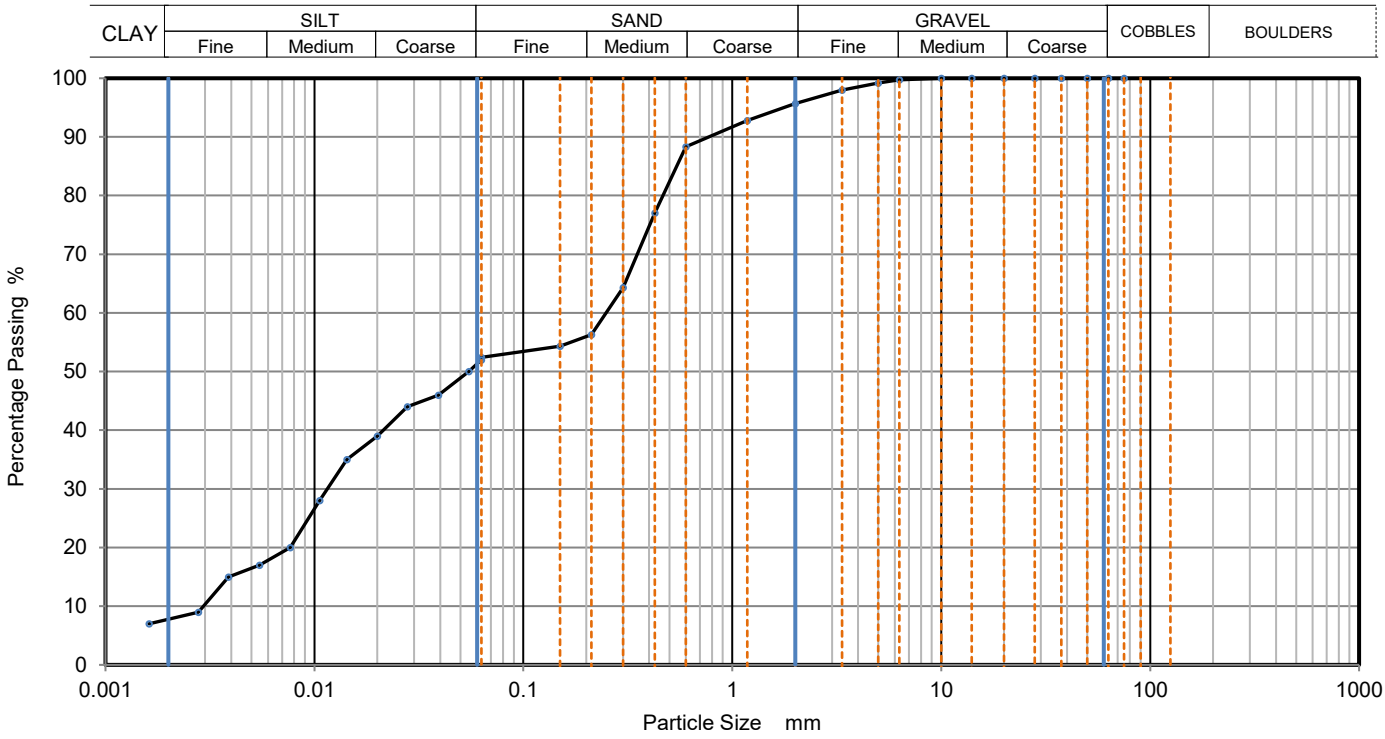
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M14
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Black and cream slightly gravelly sandy SILT / MARL.			Depth, m	1.70
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042551



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	52
		0.0547	50
75	100	0.0392	46
63	100	0.0279	44
50	100	0.0200	39
37.5	100	0.0143	35
28	100	0.0106	28
20	100	0.0077	20
14	100	0.0055	17
10	100	0.0039	15
6.3	100	0.0028	9
5	99	0.0016	7
3.35	98		
2	96		
1.18	93		
0.6	88	Particle density (assumed)	
0.425	77	2.65 Mg/m3	
0.3	64		
0.212	56		
0.15	54		
0.063	52		

Dry Mass of sample, g: 391

Sample Proportions	% dry mass
Very coarse	0
Gravel	4
Sand	43
Silt	45
Clay	7

Grading Analysis		
D100	mm	
D60	mm	0.249
D30	mm	0.0114
D10	mm	0.00297
Uniformity Coefficient		84
Curvature Coefficient		0.18

Remarks

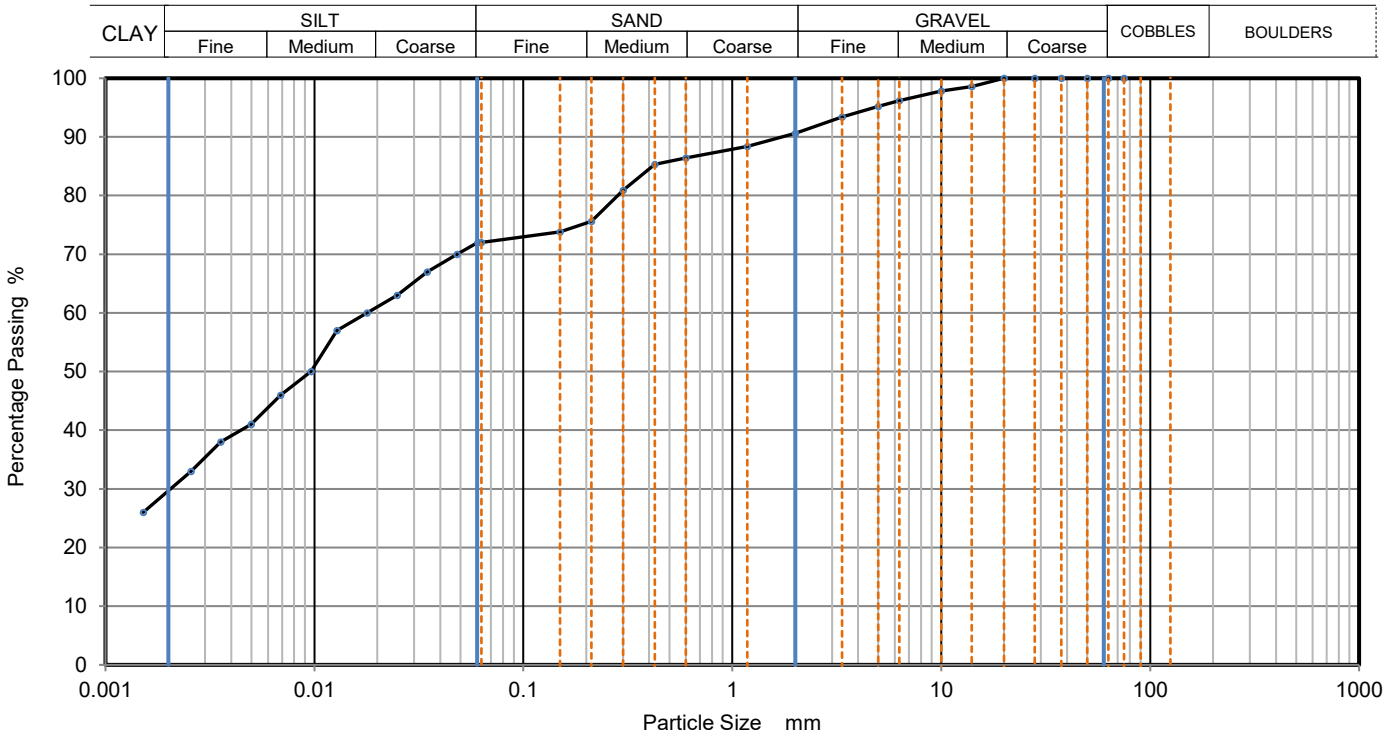
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M15
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Orangish-brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042553



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0606	72
		0.0482	70
75	100	0.0346	67
63	100	0.0249	63
50	100	0.0179	60
37.5	100	0.0128	57
28	100	0.0096	50
20	100	0.0069	46
14	99	0.0050	41
10	98	0.0036	38
6.3	96	0.0026	33
5	95	0.0015	26
3.35	93		
2	91		
1.18	88		
0.6	86	Particle density (assumed)	
0.425	85	2.65 Mg/m3	
0.3	81		
0.212	76		
0.15	74		
0.063	72		

Dry Mass of sample, g	671

Sample Proportions	% dry mass
Very coarse	0
Gravel	9
Sand	19
Silt	43
Clay	29

Grading Analysis		
D100	mm	
D60	mm	
D30	mm	0.00211
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

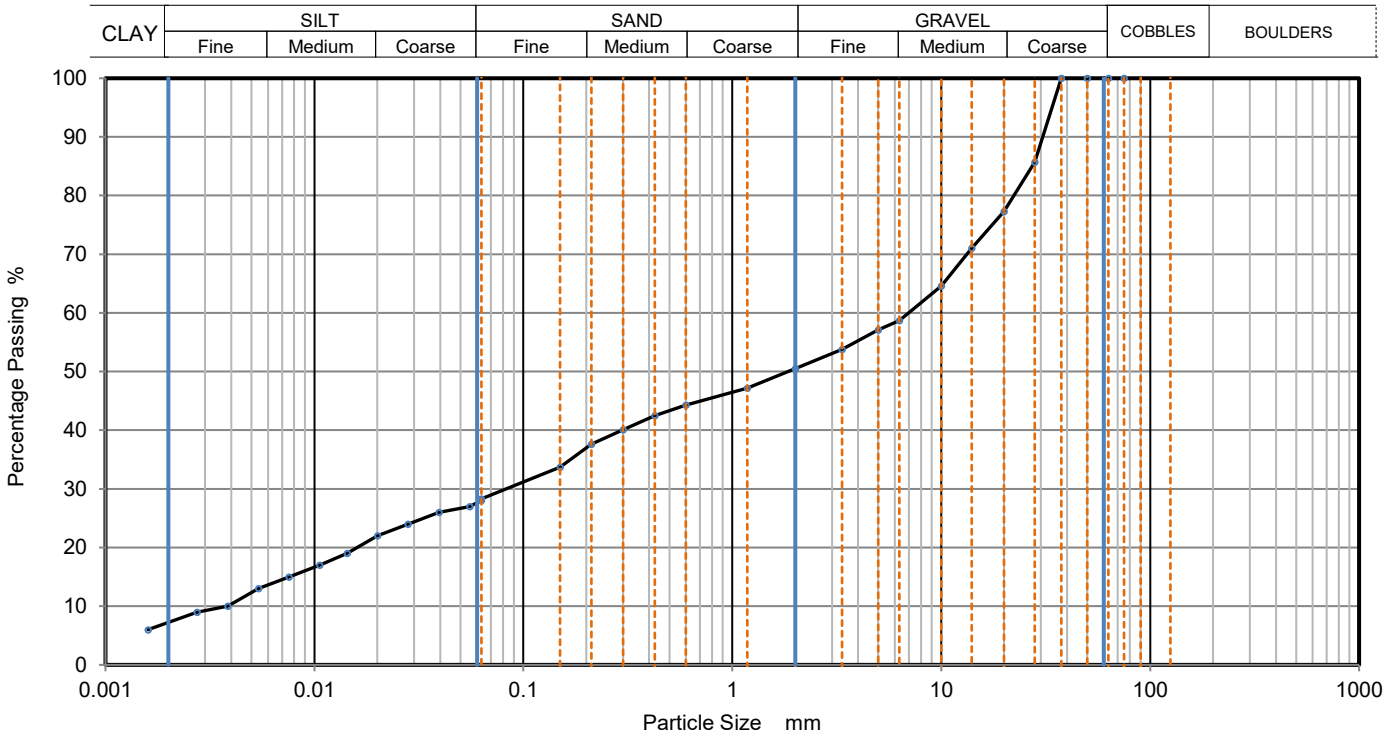
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M15
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown very sandy very silty coarse GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042555



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	28
		0.0554	27
75	100	0.0394	26
63	100	0.0281	24
50	100	0.0201	22
37.5	100	0.0144	19
28	86	0.0106	17
20	77	0.0075	15
14	71	0.0054	13
10	65	0.0039	10
6.3	59	0.0027	9
5	57	0.0016	6
3.35	54		
2	51		
1.18	47		
0.6	44	Particle density (assumed)	
0.425	43	2.65	Mg/m3
0.3	40		
0.212	38		
0.15	34		
0.063	28		

Dry Mass of sample, g	710

Sample Proportions	% dry mass
Very coarse	0
Gravel	50
Sand	22
Silt	21
Clay	8

Grading Analysis		
D100	mm	
D60	mm	6.96
D30	mm	0.0824
D10	mm	0.00357
Uniformity Coefficient		2000
Curvature Coefficient		0.27

Remarks

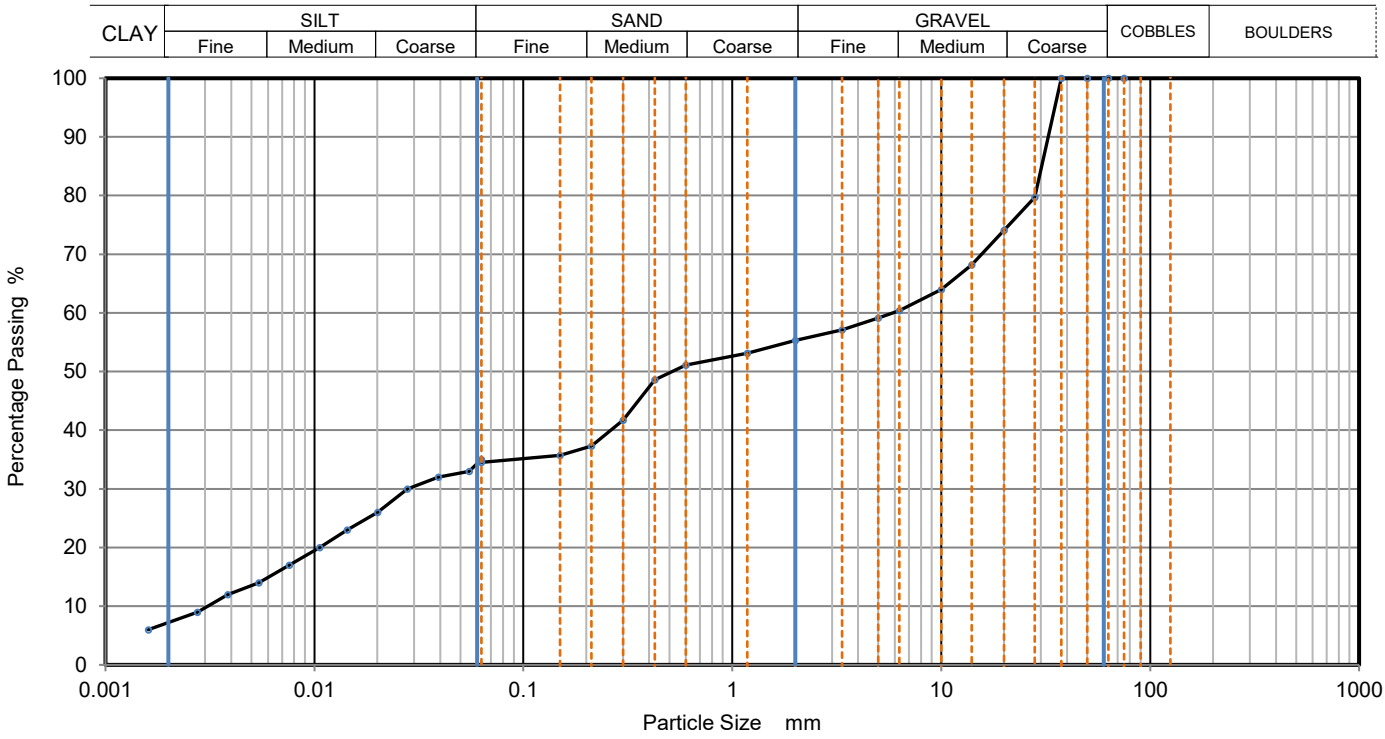
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M15
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Light brown slightly sandy gravelly SILT. Gravel is coarse.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042557



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	35
		0.0550	33
75	100	0.0392	32
63	100	0.0279	30
50	100	0.0201	26
37.5	100	0.0143	23
28	80	0.0106	20
20	74	0.0076	17
14	68	0.0054	14
10	64	0.0038	12
6.3	60	0.0028	9
5	59	0.0016	6
3.35	57		
2	55		
1.18	53		
0.6	51	Particle density (assumed)	
0.425	49	2.65	Mg/m3
0.3	42		
0.212	37		
0.15	36		
0.063	35		

Dry Mass of sample, g	761

Sample Proportions	% dry mass
Very coarse	0
Gravel	45
Sand	21
Silt	27
Clay	7

Grading Analysis		
D100	mm	
D60	mm	5.85
D30	mm	
D10	mm	0.00308
Uniformity Coefficient		1900
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

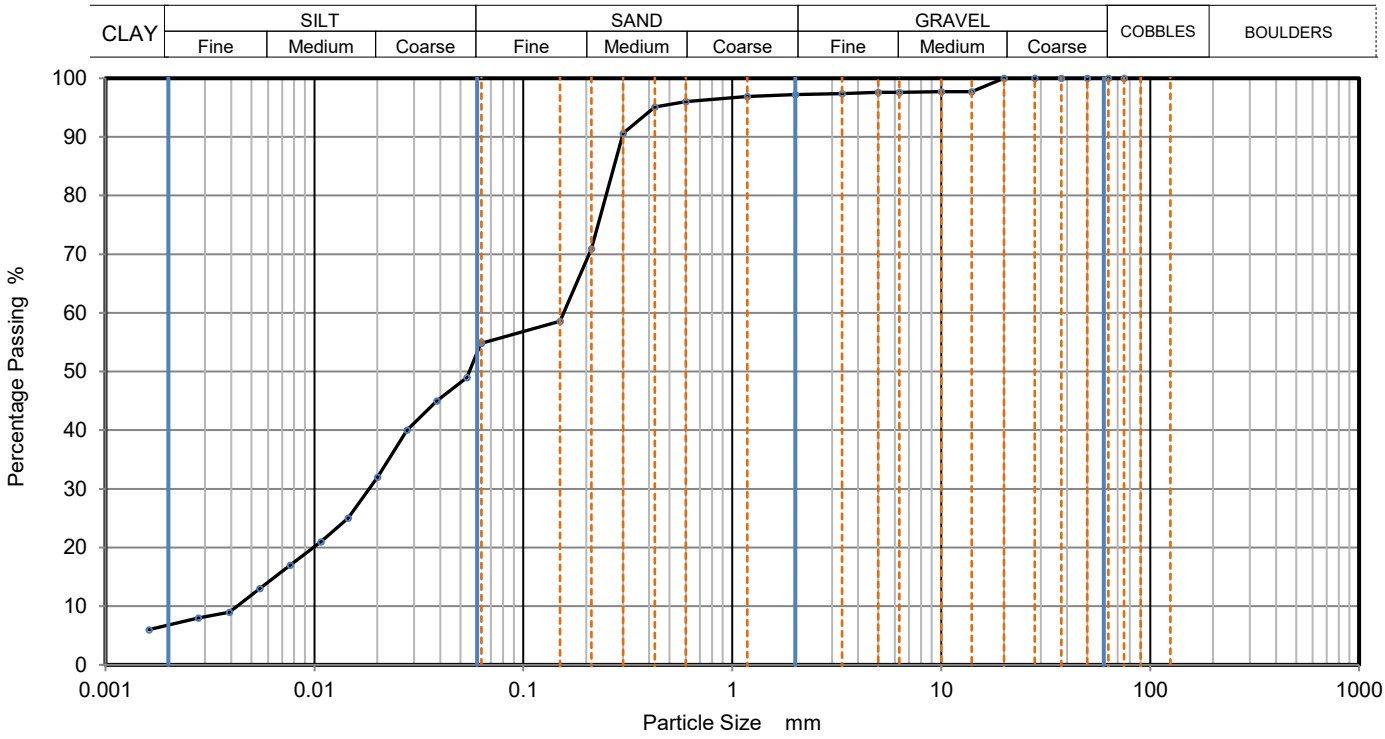
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M16
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Grey slightly gravelly sandy SILT. Sand is medium.			Depth, m	1.80
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042562



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	55
		0.0537	49
75	100	0.0385	45
63	100	0.0277	40
50	100	0.0201	32
37.5	100	0.0145	25
28	100	0.0107	21
20	100	0.0077	17
14	98	0.0055	13
10	98	0.0039	9
6.3	98	0.0028	8
5	98	0.0016	6
3.35	97		
2	97		
1.18	97		
0.6	96	Particle density (assumed)	
0.425	95	2.65 Mg/m3	
0.3	91		
0.212	71		
0.15	59		
0.063	55		

Dry Mass of sample, g	637

Sample Proportions	% dry mass
Very coarse	0
Gravel	3
Sand	42
Silt	48
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.156
D30	mm	0.0183
D10	mm	0.00411
Uniformity Coefficient		38
Curvature Coefficient		0.52

Remarks

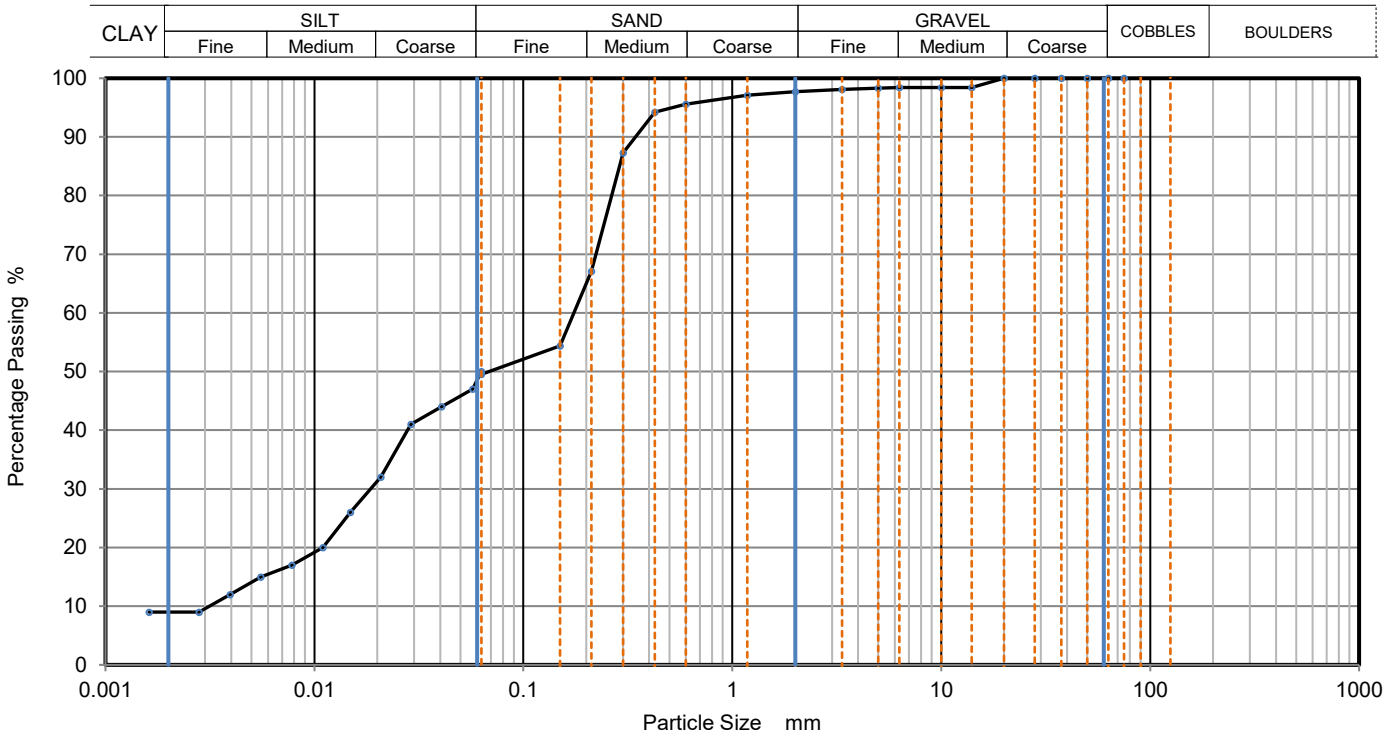
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M16
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Grey slightly gravelly sandy SILT. Sand is medium and fine.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042564



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	50
		0.0572	47
75	100	0.0407	44
63	100	0.0289	41
50	100	0.0208	32
37.5	100	0.0149	26
28	100	0.0110	20
20	100	0.0078	17
14	98	0.0055	15
10	98	0.0039	12
6.3	98	0.0028	9
5	98	0.0016	9
3.35	98		
2	98		
1.18	97		
0.6	96	Particle density (assumed)	
0.425	94	2.65 Mg/m3	
0.3	87		
0.212	67		
0.15	54		
0.063	50		

Dry Mass of sample, g	682

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	48
Silt	41
Clay	9

Grading Analysis		
D100	mm	
D60	mm	0.175
D30	mm	0.0185
D10	mm	0.00325
Uniformity Coefficient		54
Curvature Coefficient		0.6

Remarks

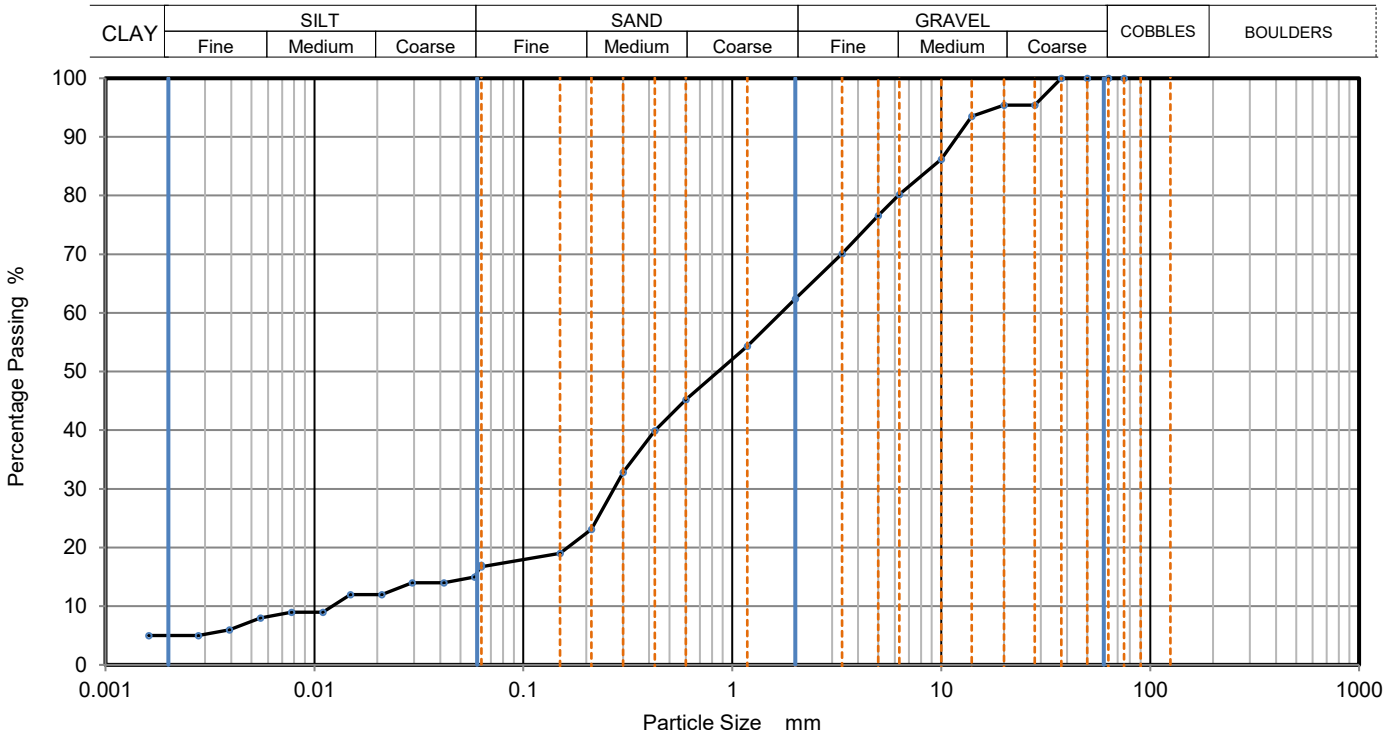
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M17
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty very gravelly SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042566



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	17
		0.0585	15
75	100	0.0416	14
63	100	0.0294	14
50	100	0.0210	12
37.5	100	0.0149	12
28	95	0.0110	9
20	95	0.0078	9
14	94	0.0055	8
10	86	0.0039	6
6.3	80	0.0028	5
5	77	0.0016	5
3.35	70		
2	62		
1.18	54		
0.6	45	Particle density (assumed)	
0.425	40	2.65 Mg/m3	
0.3	33		
0.212	23		
0.15	19		
0.063	17		

Dry Mass of sample, g	786

Sample Proportions	% dry mass
Very coarse	0
Gravel	38
Sand	46
Silt	12
Clay	5

Grading Analysis		
D100	mm	
D60	mm	1.71
D30	mm	0.272
D10	mm	0.0124
Uniformity Coefficient		140
Curvature Coefficient		3.5

Remarks

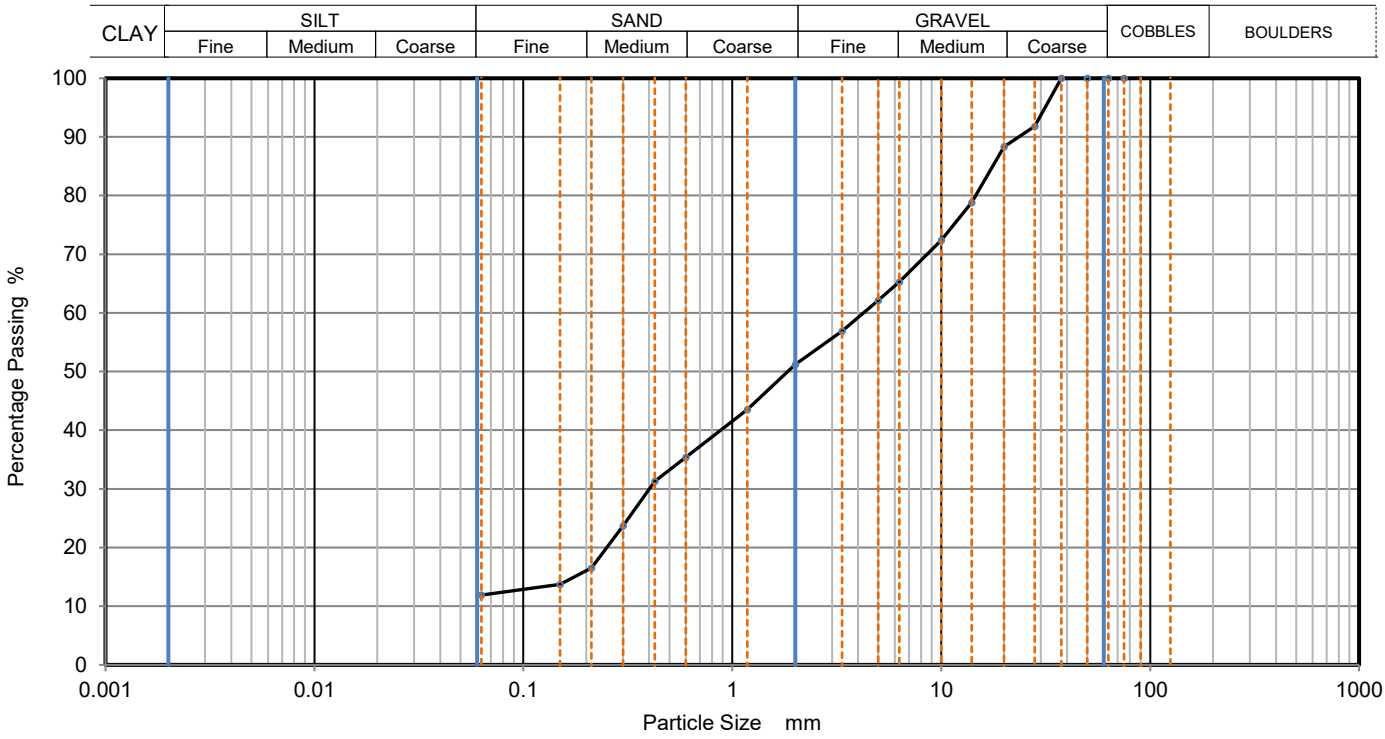
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M17
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Greyish-brown silty very sandy medium GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042568



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	92		
20	88		
14	79		
10	72		
6.3	65		
5	62		
3.35	57		
2	51		
1.18	44		
0.6	35		
0.425	31		
0.3	24		
0.212	17		
0.15	14		
0.063	12		

Dry Mass of sample, g	713

Sample Proportions	% dry mass
Very coarse	0
Gravel	49
Sand	39
Fines <0.063mm	12

Grading Analysis		
D100	mm	
D60	mm	4.26
D30	mm	0.4
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

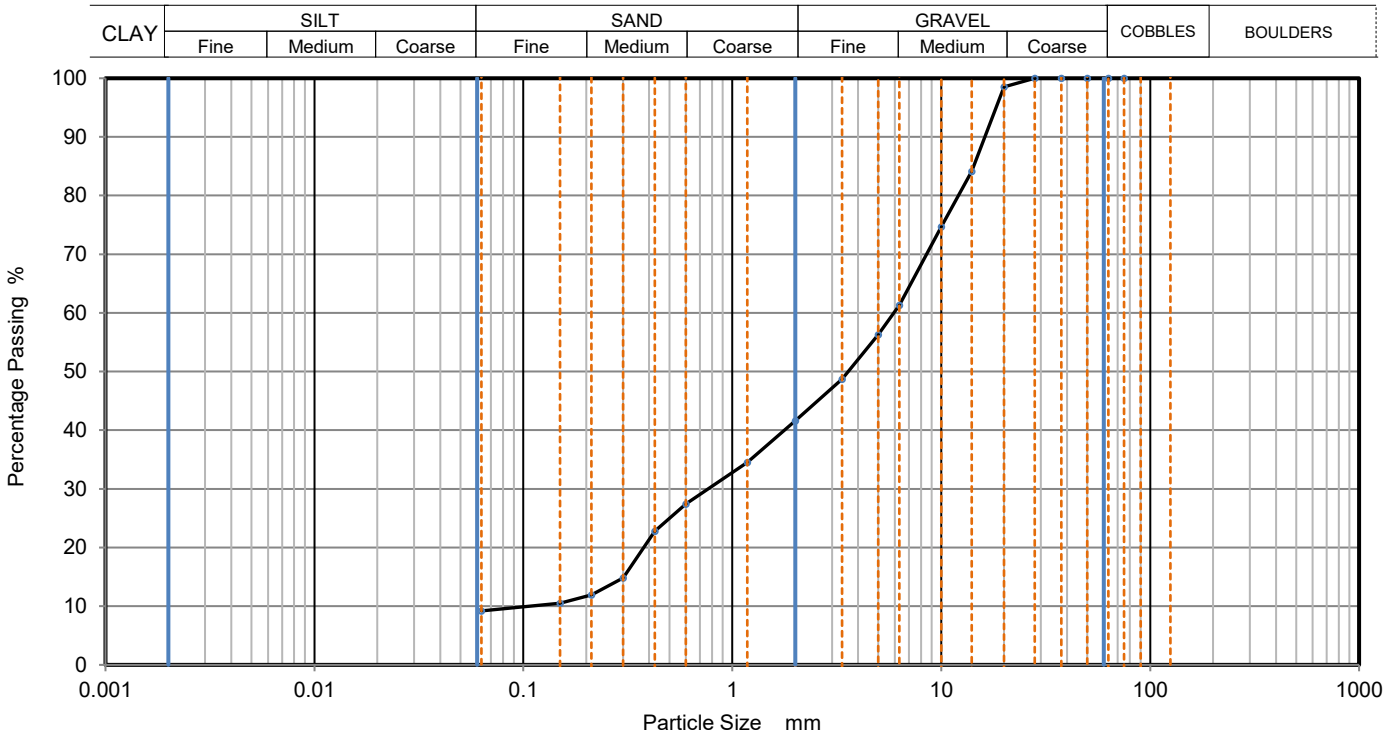
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M18
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark grey silty very sandy fien and medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042570



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	99		
14	84		
10	75		
6.3	61		
5	56		
3.35	49		
2	42		
1.18	35		
0.6	27		
0.425	23		
0.3	15		
0.212	12		
0.15	11		
0.063	9		

Dry Mass of sample, g	774

Sample Proportions	% dry mass
Very coarse	0
Gravel	58
Sand	32
Fines <0.063mm	9

Grading Analysis		
D100	mm	
D60	mm	5.93
D30	mm	0.768
D10	mm	0.106
Uniformity Coefficient		56
Curvature Coefficient		0.94

Remarks

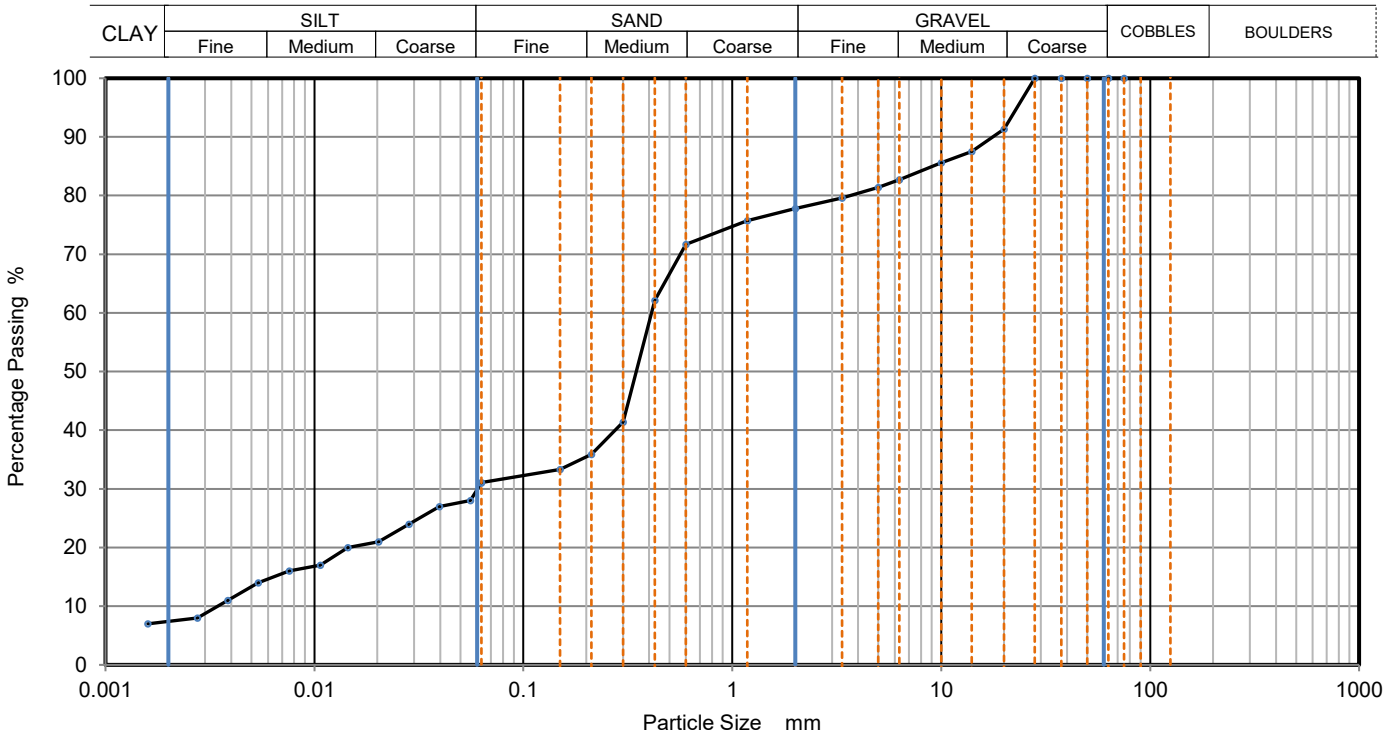
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M18
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Dark grey very gravelly very silty medium SAND.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042574



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	31
		0.0557	28
75	100	0.0396	27
63	100	0.0284	24
50	100	0.0203	21
37.5	100	0.0144	20
28	100	0.0107	17
20	91	0.0076	16
14	88	0.0054	14
10	86	0.0038	11
6.3	83	0.0028	8
5	81	0.0016	7
3.35	80		
2	78		
1.18	76		
0.6	72	Particle density (assumed)	
0.425	62	2.65	Mg/m3
0.3	41		
0.212	36		
0.15	33		
0.063	31		

Dry Mass of sample, g	731

Sample Proportions	% dry mass
Very coarse	0
Gravel	22
Sand	47
Silt	23
Clay	8

Grading Analysis		
D100	mm	
D60	mm	0.41
D30	mm	0.0601
D10	mm	0.00329
Uniformity Coefficient		120
Curvature Coefficient		2.7

Remarks

Preparation and testing in accordance with BS1377 unless noted below

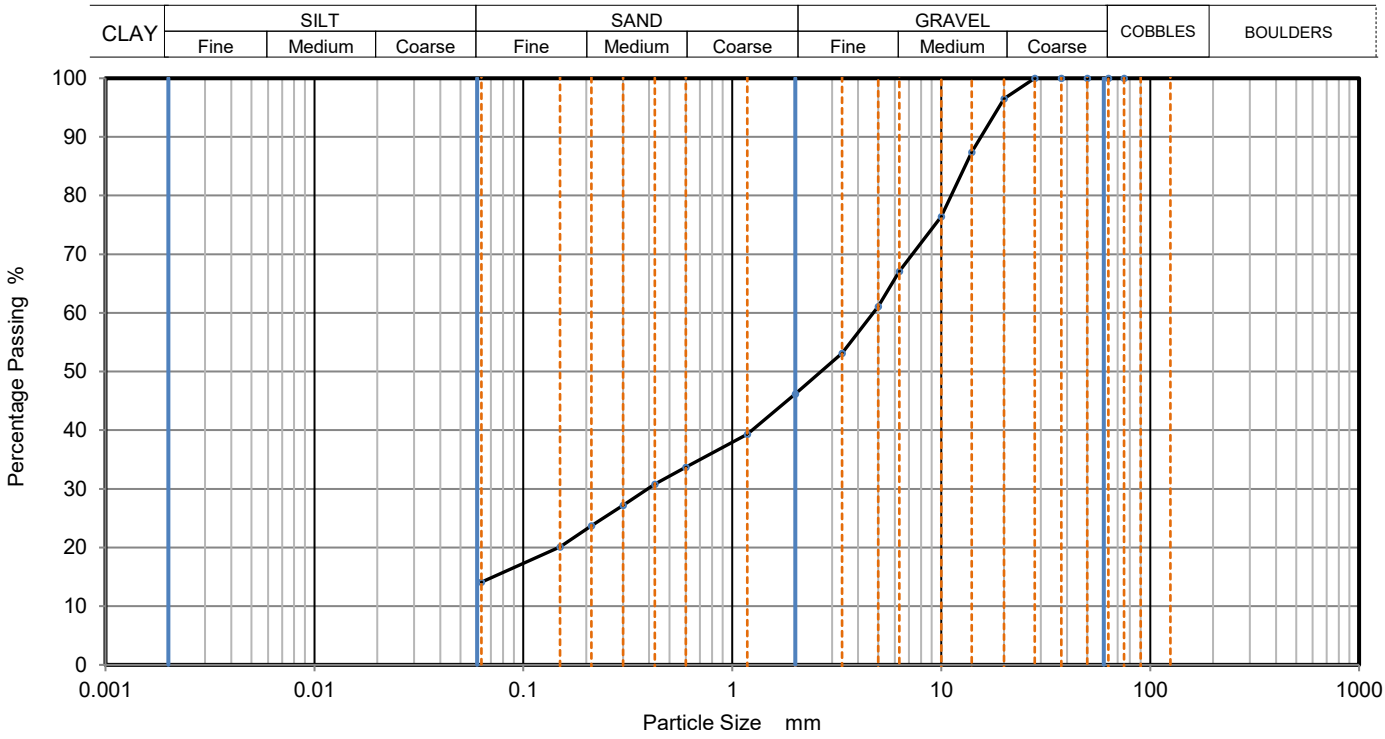
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M19
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown silty very sandy fine and medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202505080



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	87		
10	76		
6.3	67		
5	61		
3.35	53		
2	46		
1.18	39		
0.6	34		
0.425	31		
0.3	27		
0.212	24		
0.15	20		
0.063	14		

Dry Mass of sample, g	709

Sample Proportions	% dry mass
Very coarse	0
Gravel	54
Sand	32
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	4.74
D30	mm	0.393
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

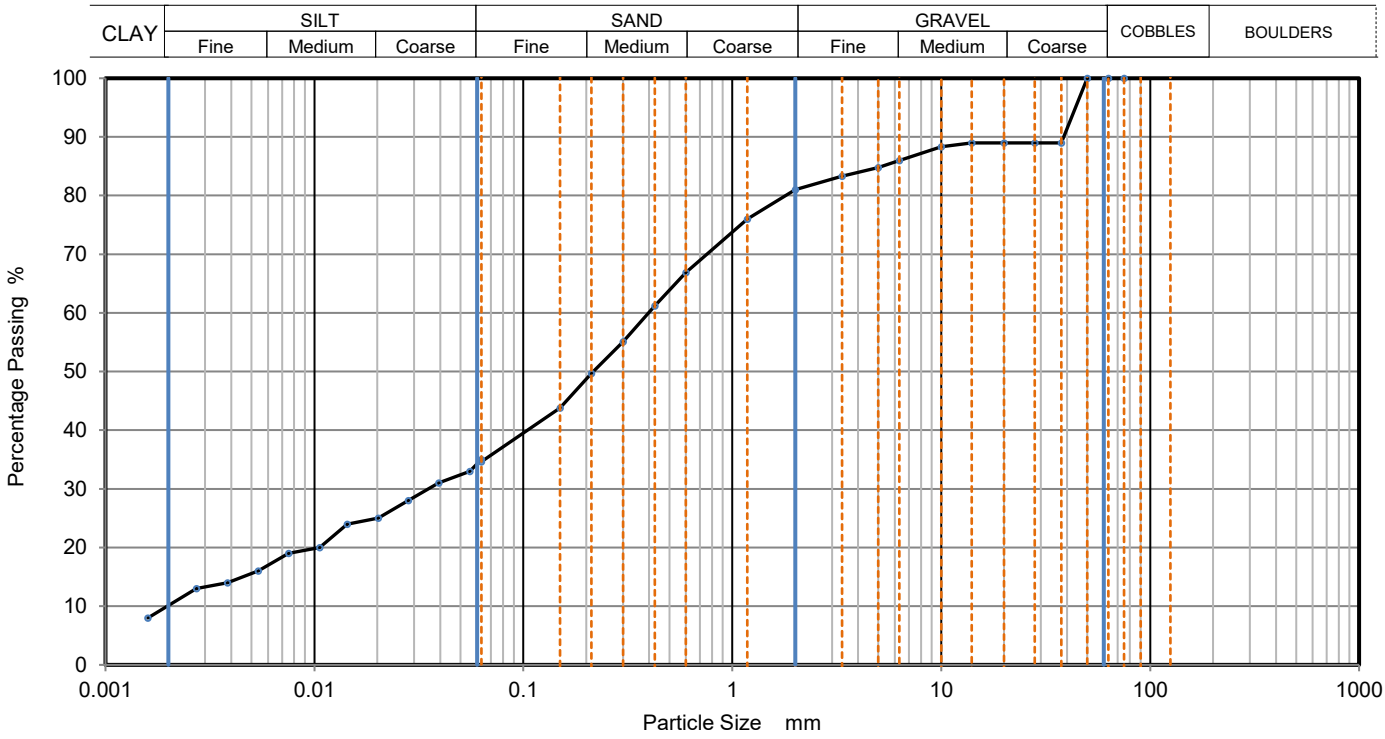
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M19
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Dark brown slightly gravelly sandy SILT.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202505082



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	35
		0.0554	33
75	100	0.0394	31
63	100	0.0282	28
50	100	0.0202	25
37.5	89	0.0143	24
28	89	0.0106	20
20	89	0.0075	19
14	89	0.0054	16
10	88	0.0038	14
6.3	86	0.0027	13
5	85	0.0016	8
3.35	83		
2	81		
1.18	76		
0.6	67	Particle density (assumed)	
0.425	61	2.65 Mg/m3	
0.3	55		
0.212	50		
0.15	44		
0.063	35		

Dry Mass of sample, g	626

Sample Proportions	% dry mass
Very coarse	0
Gravel	19
Sand	46
Silt	25
Clay	10

Grading Analysis		
D100	mm	
D60	mm	0.396
D30	mm	0.0337
D10	mm	0.00203
Uniformity Coefficient		200
Curvature Coefficient		1.4

Remarks

Preparation and testing in accordance with BS1377 unless noted below

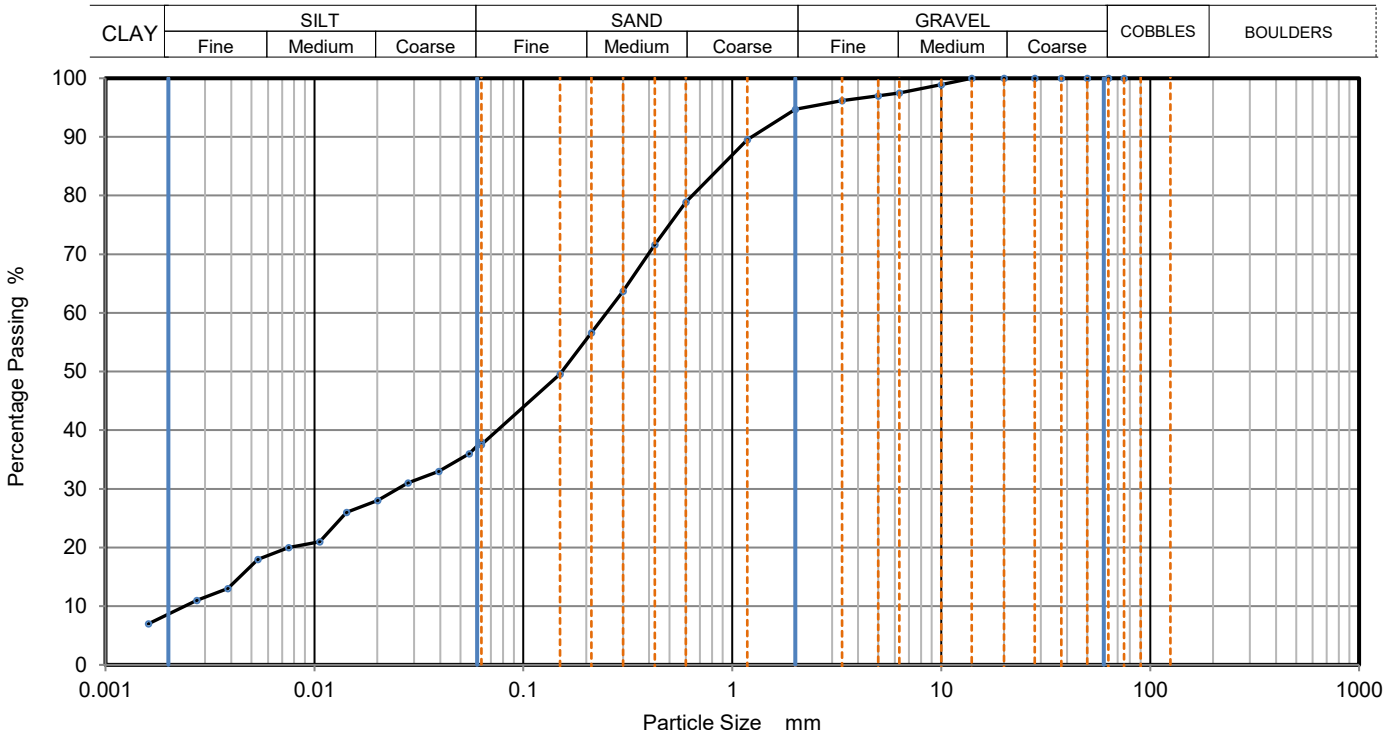
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M20
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown slightly gravelly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202505086



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	38
		0.0550	36
75	100	0.0394	33
63	100	0.0280	31
50	100	0.0201	28
37.5	100	0.0143	26
28	100	0.0106	21
20	100	0.0075	20
14	100	0.0054	18
10	99	0.0038	13
6.3	98	0.0027	11
5	97	0.0016	7
3.35	96		
2	95		
1.18	90		
0.6	79	Particle density (assumed)	
0.425	72	2.65	Mg/m3
0.3	64		
0.212	57		
0.15	50		
0.063	38		

Dry Mass of sample, g	678

Sample Proportions	% dry mass
Very coarse	0
Gravel	5
Sand	57
Silt	29
Clay	9

Grading Analysis		
D100	mm	
D60	mm	0.25
D30	mm	0.0253
D10	mm	0.00235
Uniformity Coefficient		110
Curvature Coefficient		1.1

Remarks

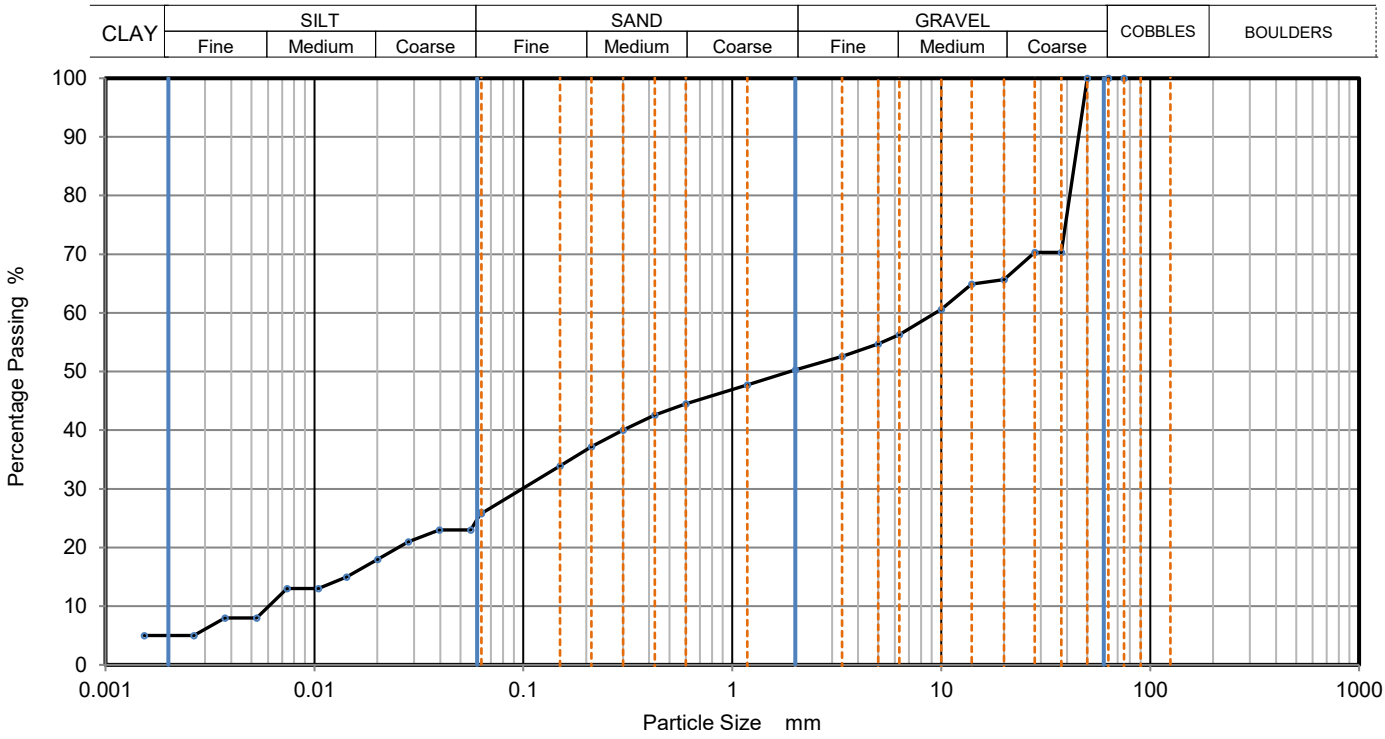
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M20
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Greyish-black very sandy very silty coarse GRAVEL.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025050810



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	26
		0.0560	23
75	100	0.0396	23
63	100	0.0282	21
50	100	0.0200	18
37.5	70	0.0142	15
28	70	0.0105	13
20	66	0.0074	13
14	65	0.0053	8
10	61	0.0037	8
6.3	56	0.0027	5
5	55	0.0015	5
3.35	53		
2	50		
1.18	48		
0.6	45	Particle density (assumed)	
0.425	43	2.65	Mg/m3
0.3	40		
0.212	37		
0.15	34		
0.063	26		

Dry Mass of sample, g	544

Sample Proportions	% dry mass
Very coarse	0
Gravel	50
Sand	25
Silt	21
Clay	5

Grading Analysis		
D100	mm	
D60	mm	9.38
D30	mm	0.0991
D10	mm	0.00612
Uniformity Coefficient		1500
Curvature Coefficient		0.17

Remarks

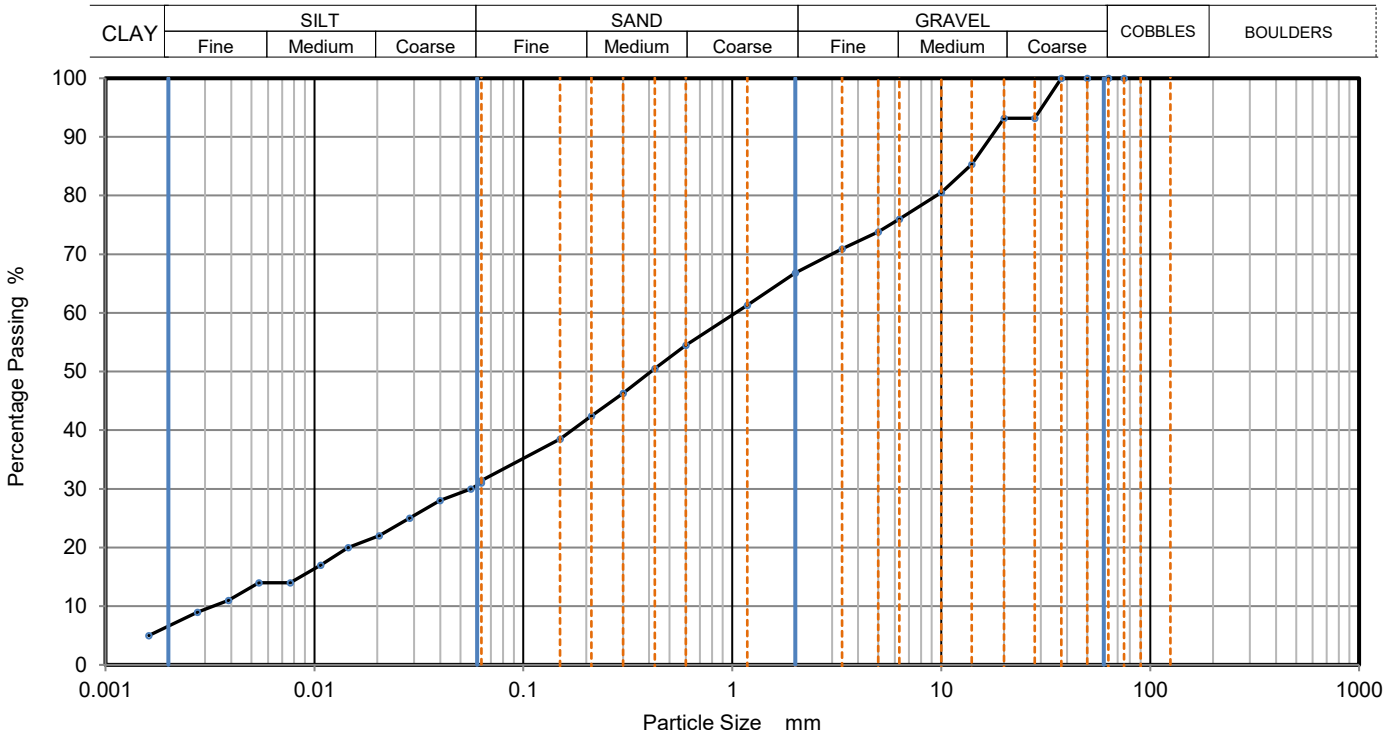
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M21
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown very silty SAND and GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025050813



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	31
		0.0560	30
75	100	0.0399	28
63	100	0.0285	25
50	100	0.0204	22
37.5	100	0.0145	20
28	93	0.0107	17
20	93	0.0077	14
14	85	0.0054	14
10	81	0.0039	11
6.3	76	0.0028	9
5	74	0.0016	5
3.35	71		
2	67		
1.18	61		
0.6	55	Particle density (assumed)	
0.425	51	2.65 Mg/m3	
0.3	46		
0.212	42		
0.15	39		
0.063	31		

Dry Mass of sample, g	697

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	35
Silt	25
Clay	7

Grading Analysis		
D100	mm	
D60	mm	1.03
D30	mm	0.0568
D10	mm	0.00312
Uniformity Coefficient		330
Curvature Coefficient		1

Remarks

Preparation and testing in accordance with BS1377 unless noted below

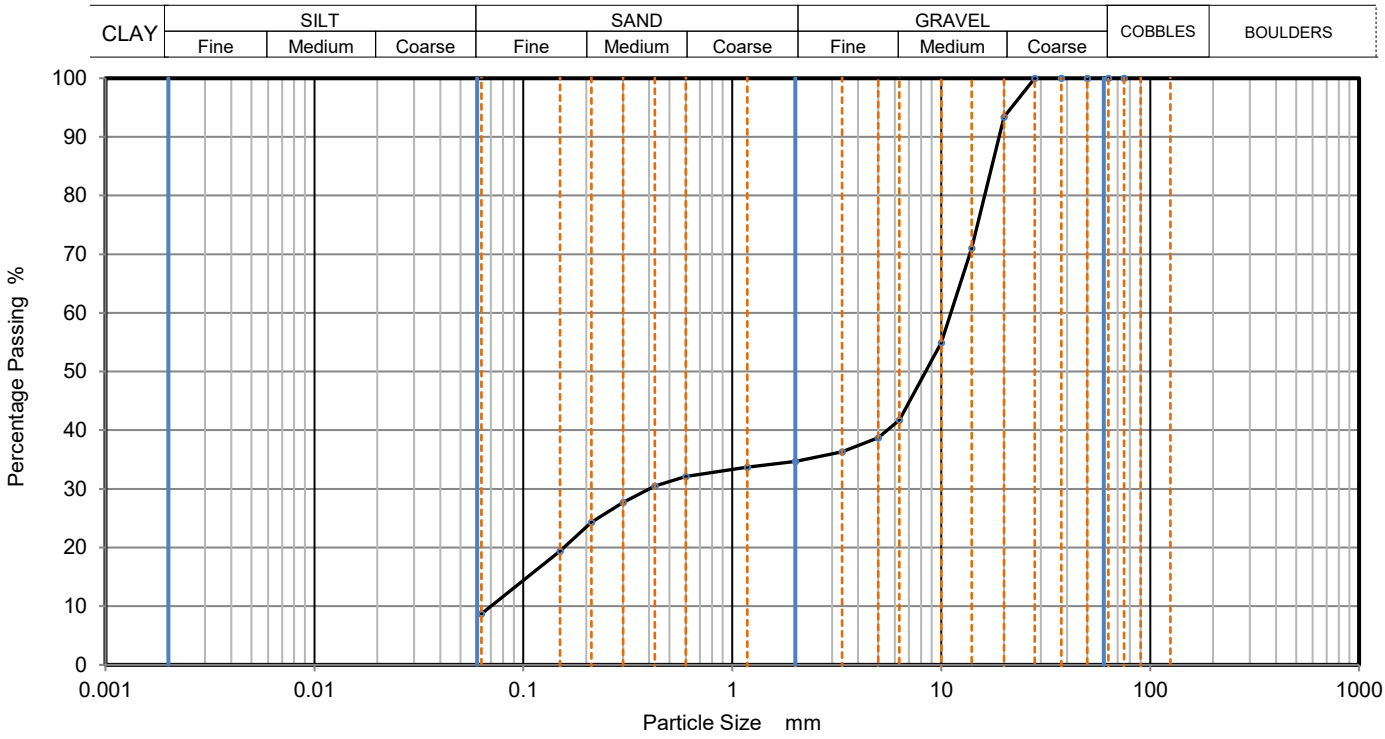
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M21
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Dark brown silty very sandy medium GRAVEL.			Depth, m	2.80
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025050817



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	93		
14	71		
10	55		
6.3	42		
5	39		
3.35	36		
2	35		
1.18	34		
0.6	32		
0.425	31		
0.3	28		
0.212	24		
0.15	19		
0.063	9		

Dry Mass of sample, g: 727

Sample Proportions	% dry mass
Very coarse	0
Gravel	65
Sand	26
Fines <0.063mm	9

Grading Analysis		
D100	mm	
D60	mm	11.1
D30	mm	0.401
D10	mm	0.0698
Uniformity Coefficient		160
Curvature Coefficient		0.21

Remarks

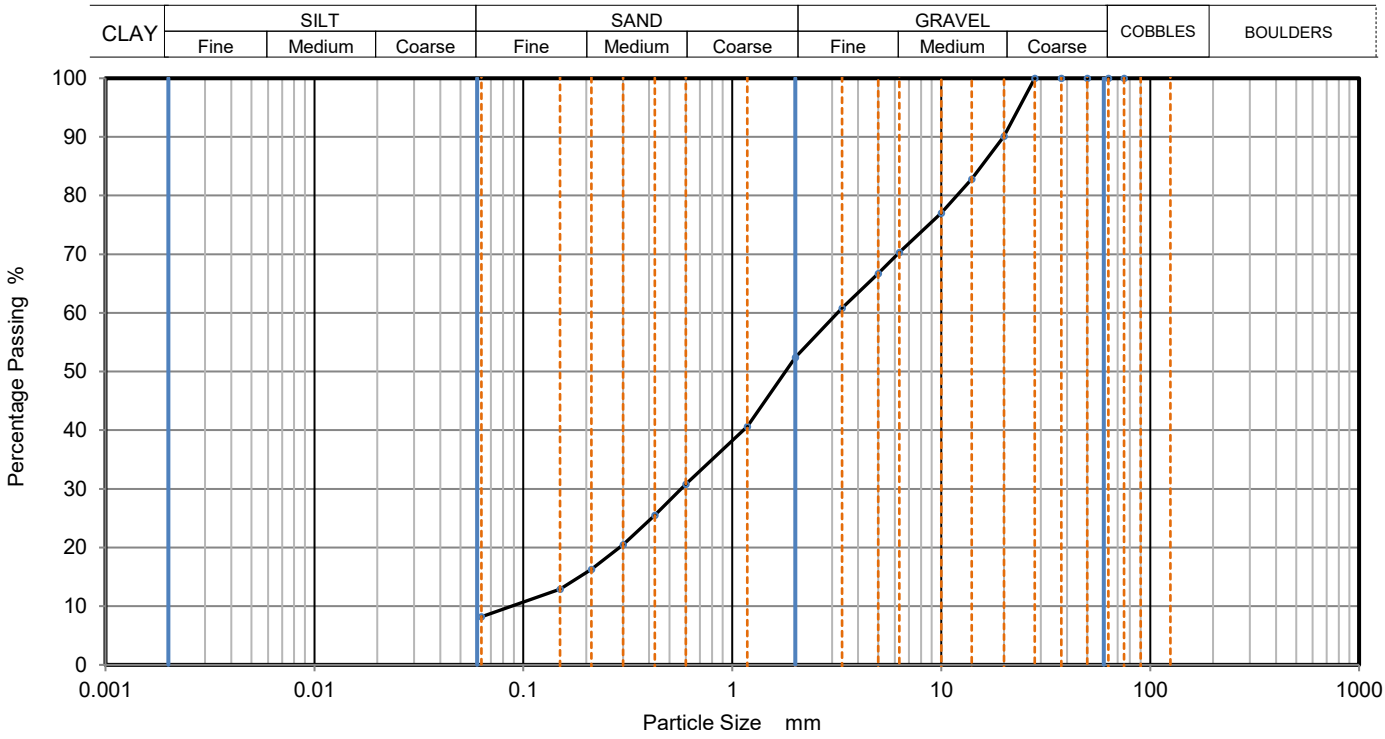
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M22
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty SAND and GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025050820



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	90		
14	83		
10	77		
6.3	70		
5	67		
3.35	61		
2	52		
1.18	41		
0.6	31		
0.425	26		
0.3	21		
0.212	16		
0.15	13		
0.063	8		

Dry Mass of sample, g	819

Sample Proportions	% dry mass
Very coarse	0
Gravel	48
Sand	44
Fines <0.063mm	8

Grading Analysis		
D100	mm	
D60	mm	3.2
D30	mm	0.57
D10	mm	0.0883
Uniformity Coefficient		36
Curvature Coefficient		1.1

Remarks

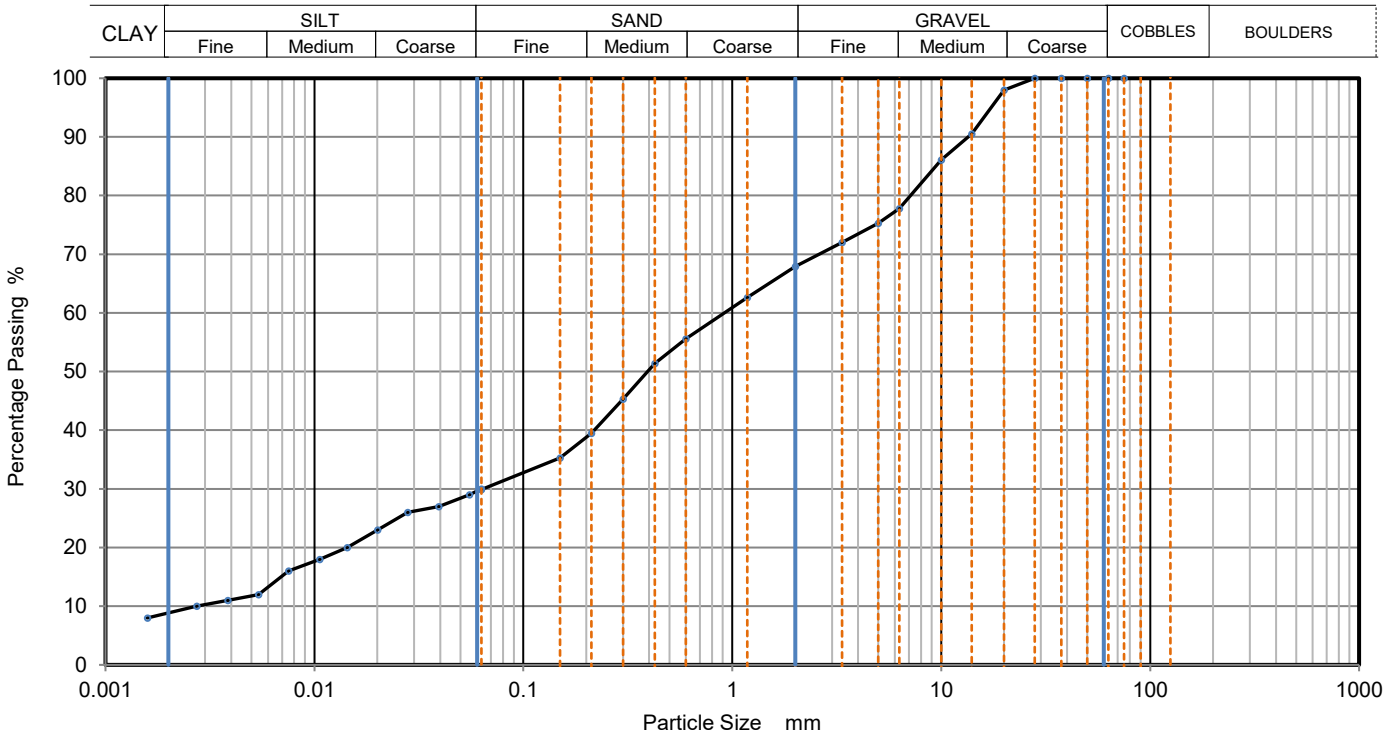
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M23
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown very silty GRAVEL and SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521199



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	30
		0.0553	29
75	100	0.0393	27
63	100	0.0280	26
50	100	0.0200	23
37.5	100	0.0143	20
28	100	0.0106	18
20	98	0.0075	16
14	91	0.0054	12
10	86	0.0038	11
6.3	78	0.0027	10
5	75	0.0016	8
3.35	72		
2	68		
1.18	63		
0.6	56	Particle density (assumed)	
0.425	51	2.65 Mg/m3	
0.3	45		
0.212	40		
0.15	35		
0.063	30		

Dry Mass of sample, g	634

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	38
Silt	21
Clay	9

Grading Analysis		
D100	mm	
D60	mm	0.918
D30	mm	0.0638
D10	mm	0.00309
Uniformity Coefficient		300
Curvature Coefficient		1.4

Remarks

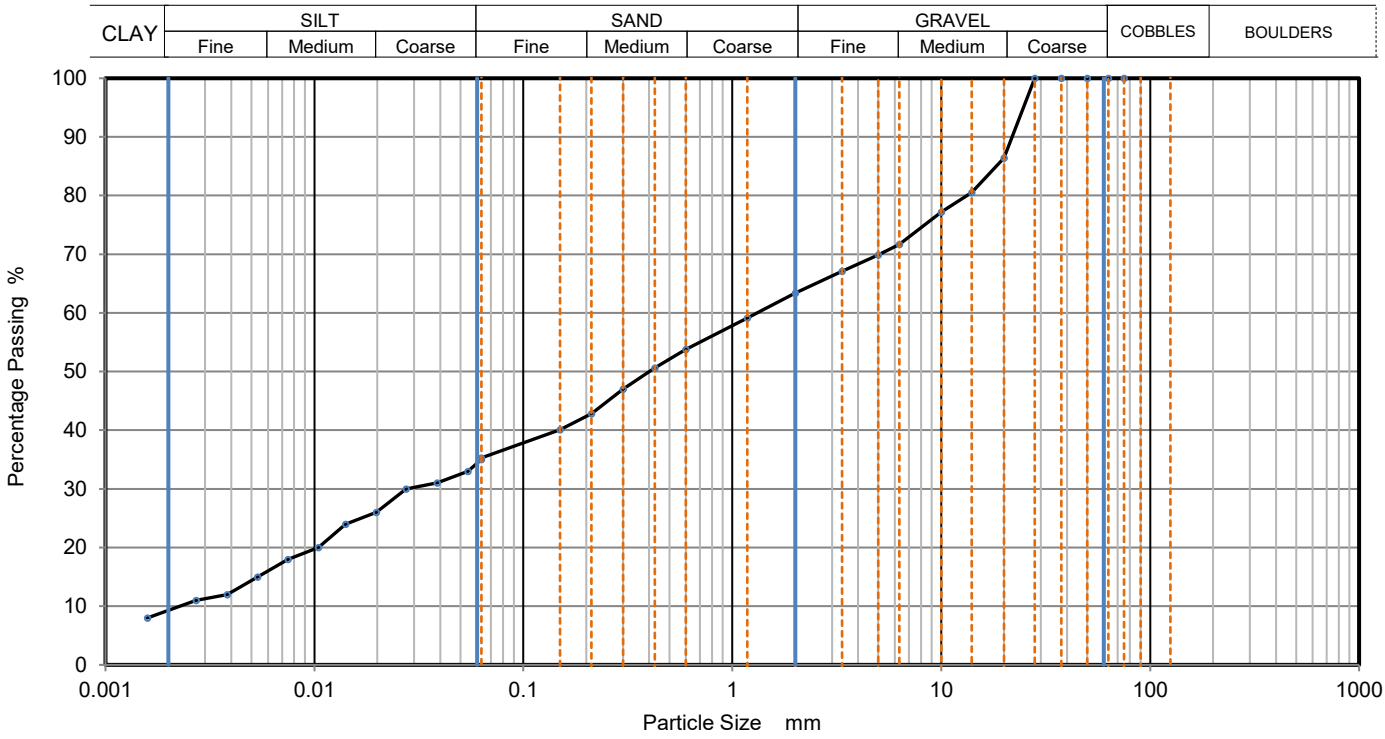
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M23
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Grey slightly sandy gravelly SILT.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521201



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	35
		0.0543	33
75	100	0.0386	31
63	100	0.0275	30
50	100	0.0198	26
37.5	100	0.0141	24
28	100	0.0105	20
20	86	0.0075	18
14	81	0.0053	15
10	77	0.0038	12
6.3	72	0.0027	11
5	70	0.0016	8
3.35	67		
2	63		
1.18	59		
0.6	54	Particle density (assumed)	
0.425	51	2.65 Mg/m3	
0.3	47		
0.212	43		
0.15	40		
0.063	35		

Dry Mass of sample, g	825

Sample Proportions	% dry mass
Very coarse	0
Gravel	37
Sand	28
Silt	26
Clay	9

Grading Analysis		
D100	mm	
D60	mm	1.31
D30	mm	0.0284
D10	mm	0.00229
Uniformity Coefficient		570
Curvature Coefficient		0.27

Remarks

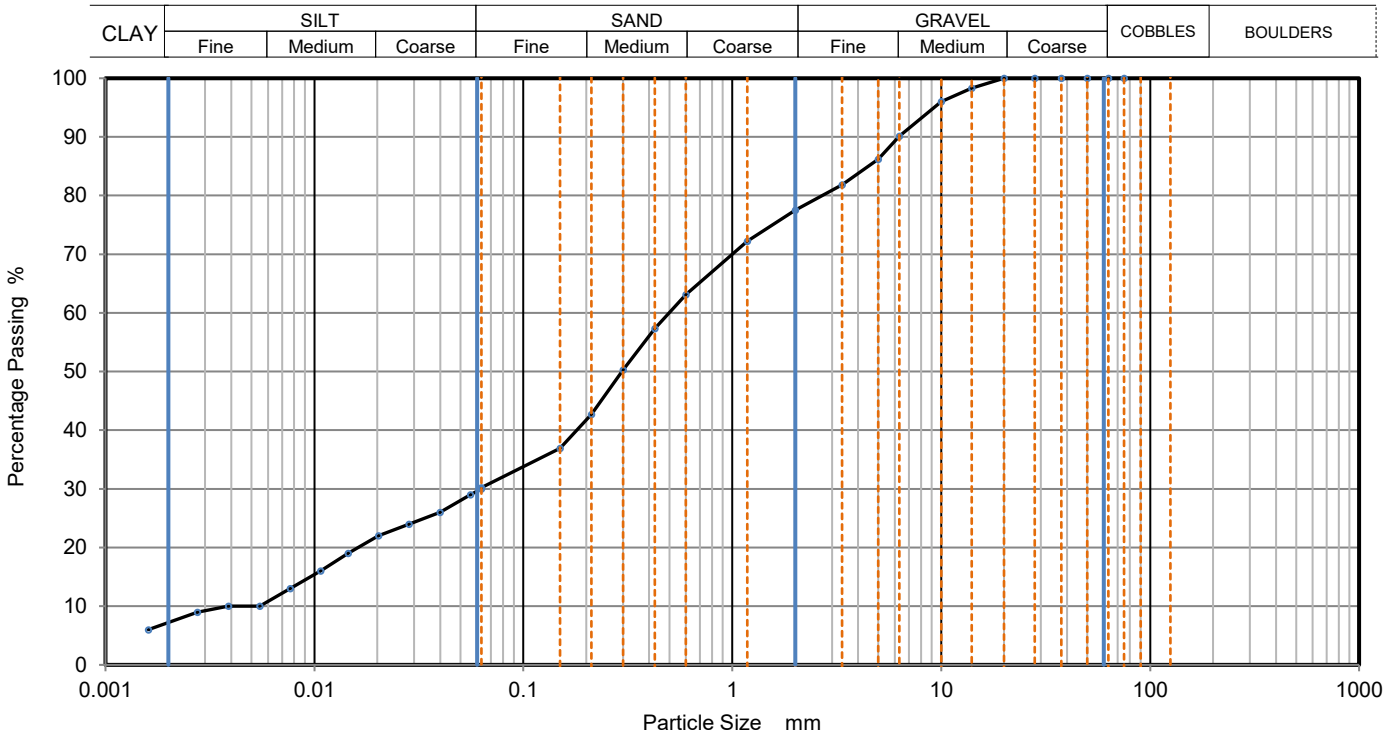
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M24
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown very gravelly very silty SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521203



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	30
		0.0557	29
75	100	0.0399	26
63	100	0.0284	24
50	100	0.0203	22
37.5	100	0.0145	19
28	100	0.0107	16
20	100	0.0077	13
14	98	0.0055	10
10	96	0.0039	10
6.3	90	0.0028	9
5	86	0.0016	6
3.35	82		
2	78		
1.18	72		
0.6	63	Particle density (assumed)	
0.425	57	2.65	Mg/m3
0.3	50		
0.212	43		
0.15	37		
0.063	30		

Dry Mass of sample, g	721

Sample Proportions	% dry mass
Very coarse	0
Gravel	23
Sand	47
Silt	23
Clay	7

Grading Analysis		
D100	mm	
D60	mm	0.499
D30	mm	0.0621
D10	mm	0.00381
Uniformity Coefficient		130
Curvature Coefficient		2

Remarks

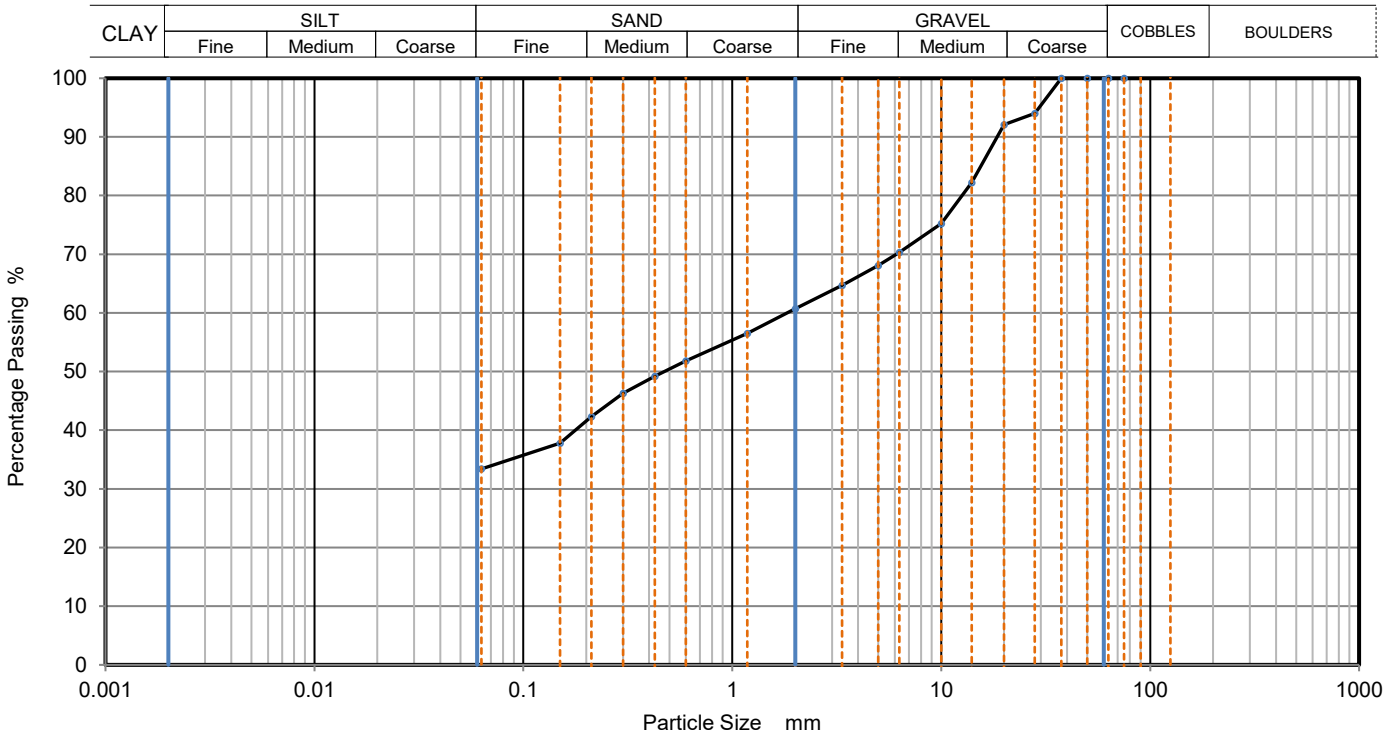
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M24
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Dark grey very sandy very silty medium GRAVEL.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250521207



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	94		
20	92		
14	82		
10	75		
6.3	70		
5	68		
3.35	65		
2	61		
1.18	57		
0.6	52		
0.425	49		
0.3	46		
0.212	42		
0.15	38		
0.063	33		

Dry Mass of sample, g	736

Sample Proportions	% dry mass
Very coarse	0
Gravel	39
Sand	27
Fines <0.063mm	33

Grading Analysis		
D100	mm	
D60	mm	1.84
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

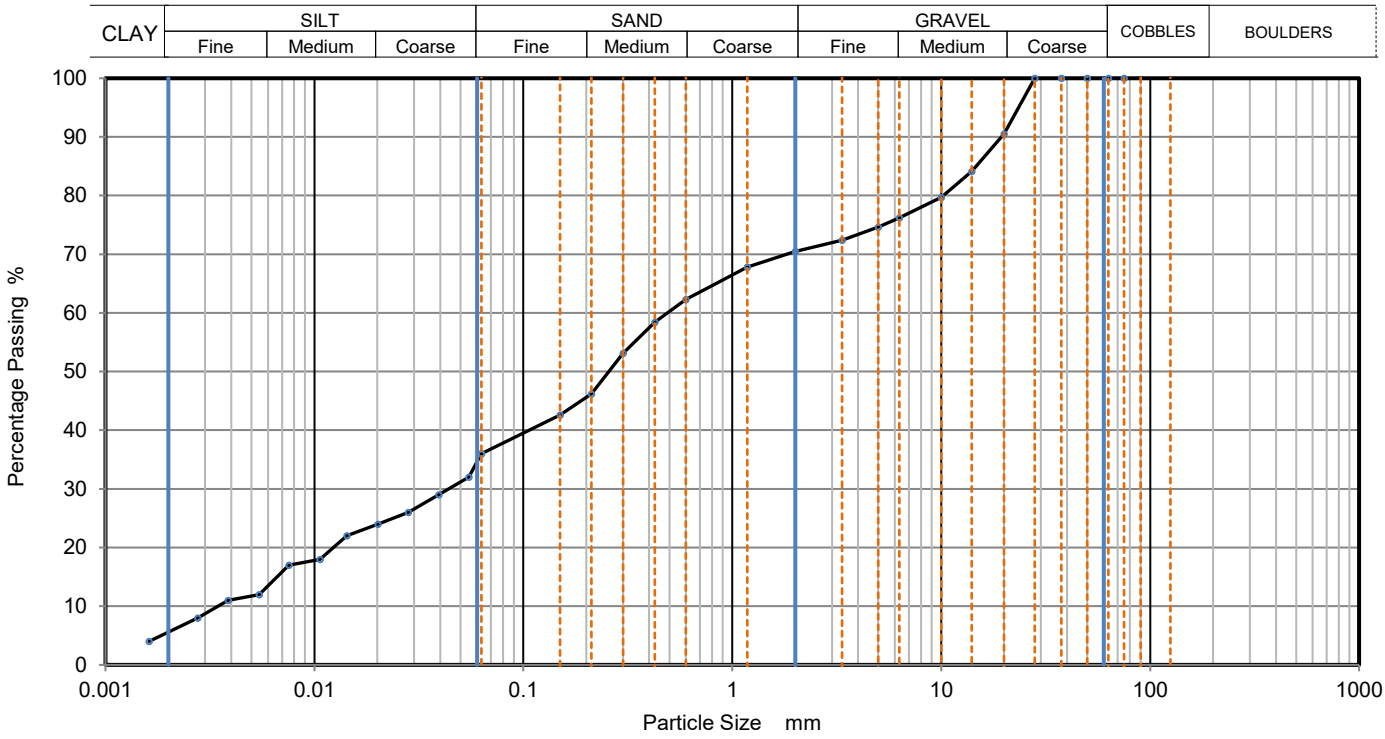
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M25
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown slightly gravelly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521210



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	36
		0.0549	32
75	100	0.0393	29
63	100	0.0281	26
50	100	0.0201	24
37.5	100	0.0143	22
28	100	0.0106	18
20	91	0.0076	17
14	84	0.0054	12
10	80	0.0039	11
6.3	76	0.0028	8
5	75	0.0016	4
3.35	72		
2	71		
1.18	68		
0.6	62	Particle density (assumed)	
0.425	58	2.65 Mg/m3	
0.3	53		
0.212	46		
0.15	43		
0.063	36		

Dry Mass of sample, g	613

Sample Proportions	% dry mass
Very coarse	0
Gravel	30
Sand	35
Silt	30
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.489
D30	mm	0.0439
D10	mm	0.00339
Uniformity Coefficient		140
Curvature Coefficient		1.2

Remarks

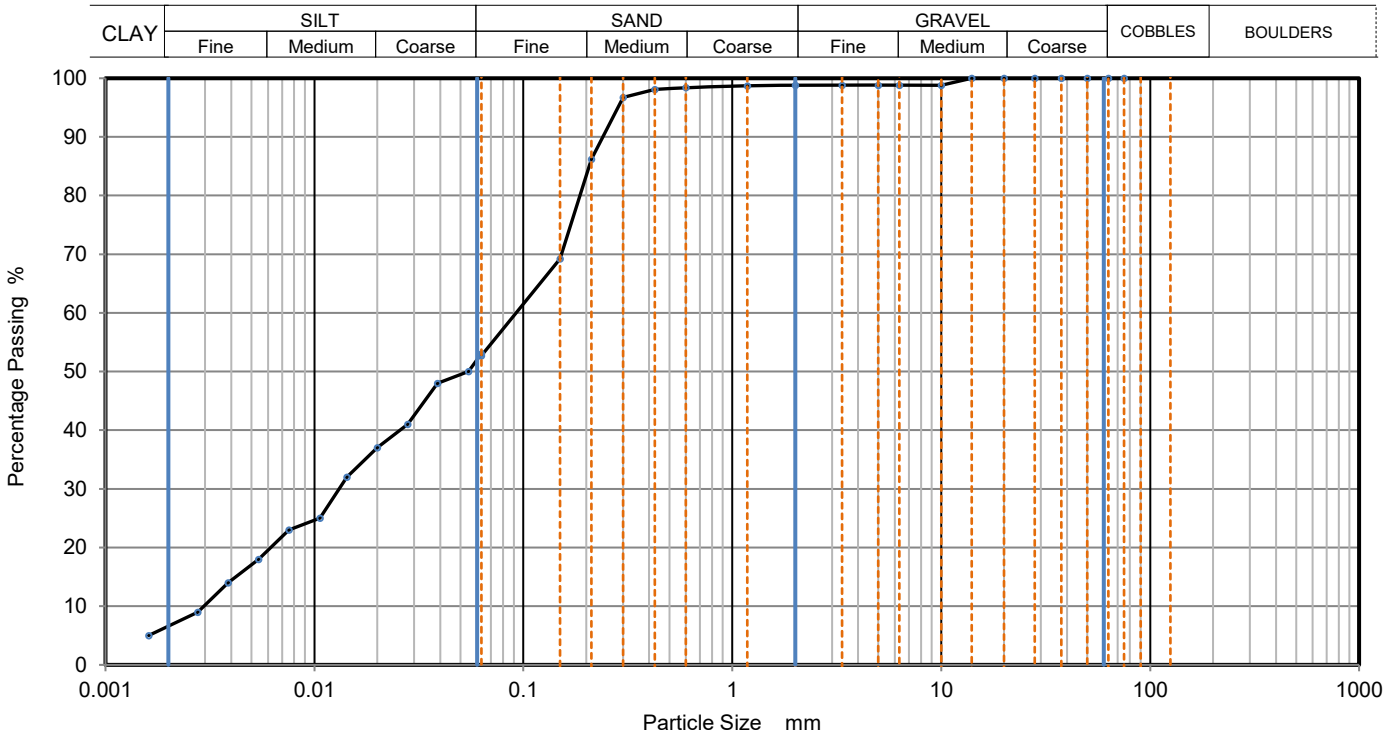
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M25
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Grey sandy SILT. Sand is fine.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521214



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	53
		0.0546	50
75	100	0.0389	48
63	100	0.0280	41
50	100	0.0200	37
37.5	100	0.0143	32
28	100	0.0106	25
20	100	0.0076	23
14	100	0.0054	18
10	99	0.0039	14
6.3	99	0.0028	9
5	99	0.0016	5
3.35	99		
2	99		
1.18	99		
0.6	98	Particle density (assumed)	
0.425	98	2.65 Mg/m3	
0.3	97		
0.212	86		
0.15	69		
0.063	53		

Dry Mass of sample, g	629

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	46
Silt	46
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.0924
D30	mm	0.0131
D10	mm	0.00293
Uniformity Coefficient		32
Curvature Coefficient		0.63

Remarks

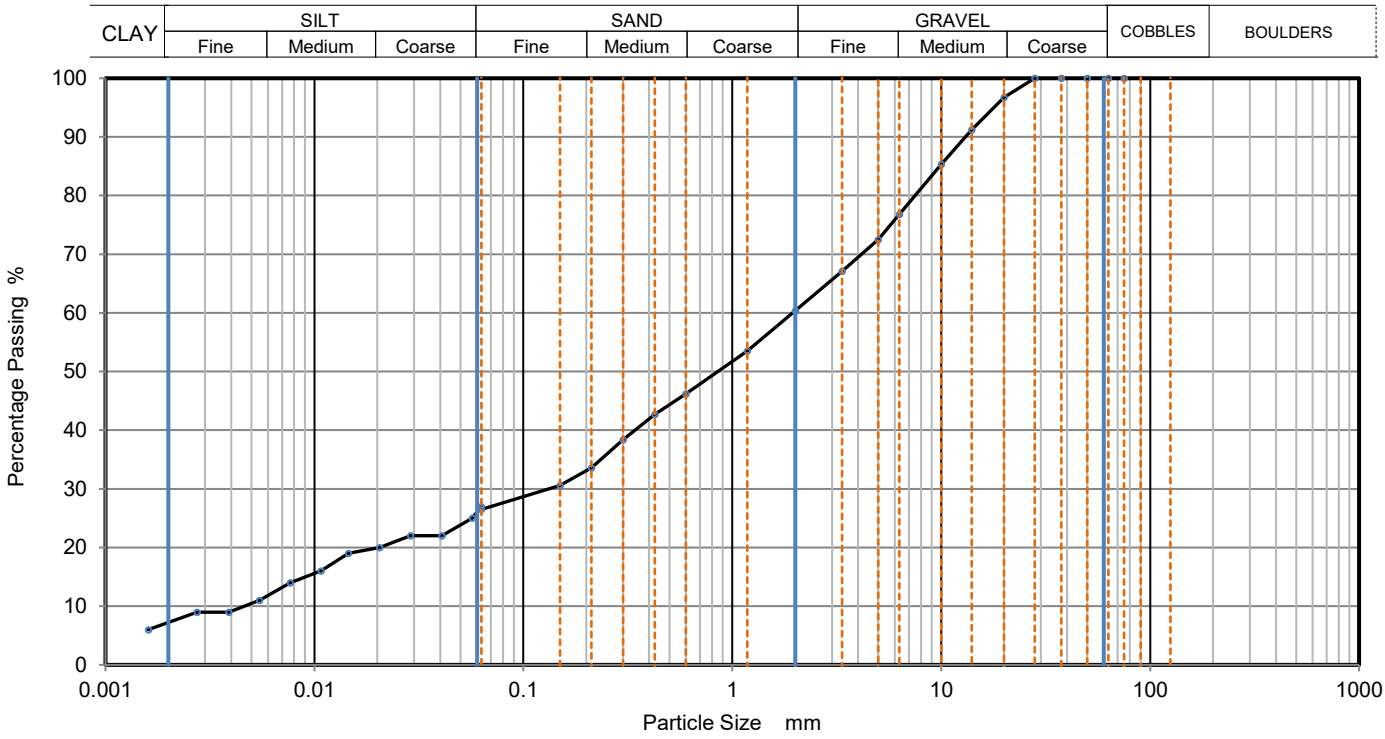
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M26
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark grey very silty very sandy fine and medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521216



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	27
		0.0570	25
75	100	0.0408	22
63	100	0.0288	22
50	100	0.0205	20
37.5	100	0.0146	19
28	100	0.0108	16
20	97	0.0076	14
14	91	0.0055	11
10	85	0.0039	9
6.3	77	0.0027	9
5	73	0.0016	6
3.35	67		
2	60		
1.18	54		
0.6	46	Particle density (assumed)	
0.425	43	2.65 Mg/m3	
0.3	38		
0.212	34		
0.15	31		
0.063	27		

Dry Mass of sample, g	692

Sample Proportions	% dry mass
Very coarse	0
Gravel	40
Sand	34
Silt	19
Clay	8

Grading Analysis		
D100	mm	
D60	mm	1.94
D30	mm	0.132
D10	mm	0.00448
Uniformity Coefficient		430
Curvature Coefficient		2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

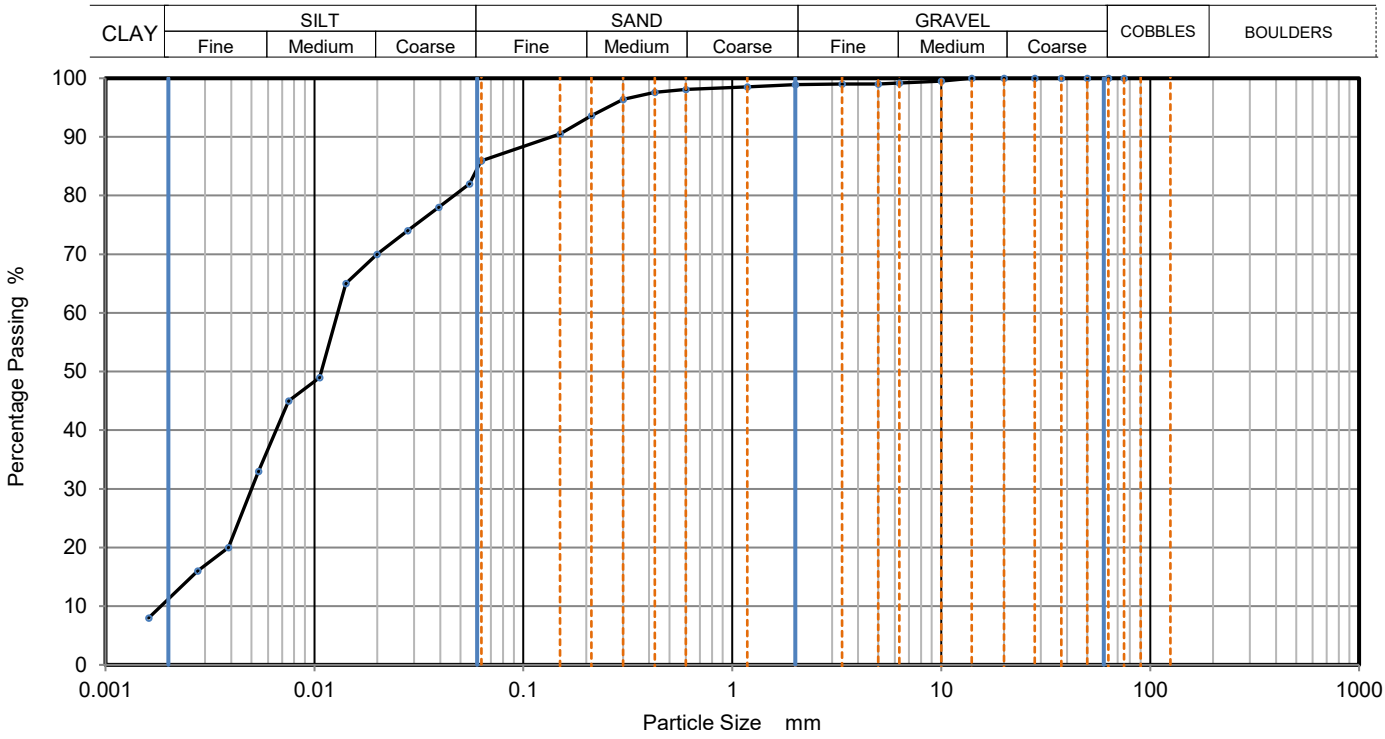
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M26
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Light brown slightly sandy SILT.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521220



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	86
		0.0553	82
75	100	0.0393	78
63	100	0.0280	74
50	100	0.0199	70
37.5	100	0.0142	65
28	100	0.0106	49
20	100	0.0075	45
14	100	0.0054	33
10	100	0.0039	20
6.3	99	0.0028	16
5	99	0.0016	8
3.35	99		
2	99		
1.18	99		
0.6	98	Particle density (assumed)	
0.425	98	2.65 Mg/m3	
0.3	96		
0.212	94		
0.15	91		
0.063	86		

Dry Mass of sample, g: 378

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	13
Silt	74
Clay	12

Grading Analysis		
D100	mm	
D60	mm	0.0128
D30	mm	0.00502
D10	mm	0.00181
Uniformity Coefficient		7.1
Curvature Coefficient		1.1

Remarks

Preparation and testing in accordance with BS1377 unless noted below

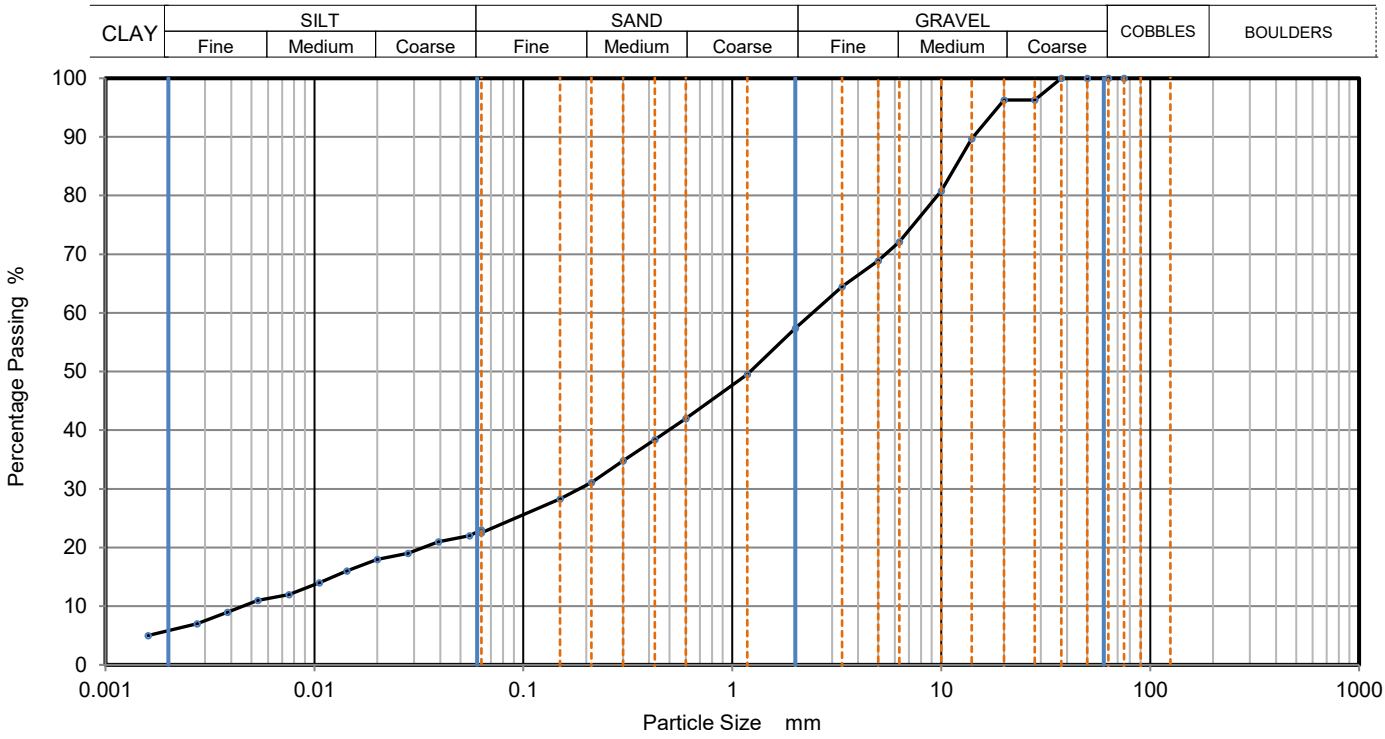
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M27
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown very silty very sandy medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521223



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	23
		0.0552	22
75	100	0.0392	21
63	100	0.0281	19
50	100	0.0200	18
37.5	100	0.0143	16
28	96	0.0106	14
20	96	0.0076	12
14	90	0.0054	11
10	81	0.0038	9
6.3	72	0.0027	7
5	69	0.0016	5
3.35	65		
2	57		
1.18	50		
0.6	42	Particle density (assumed)	
0.425	38	2.65 Mg/m3	
0.3	35		
0.212	31		
0.15	28		
0.063	23		

Dry Mass of sample, g	785

Sample Proportions	% dry mass
Very coarse	0
Gravel	43
Sand	35
Silt	17
Clay	6

Grading Analysis		
D100	mm	
D60	mm	2.41
D30	mm	0.185
D10	mm	0.00471
Uniformity Coefficient		510
Curvature Coefficient		3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

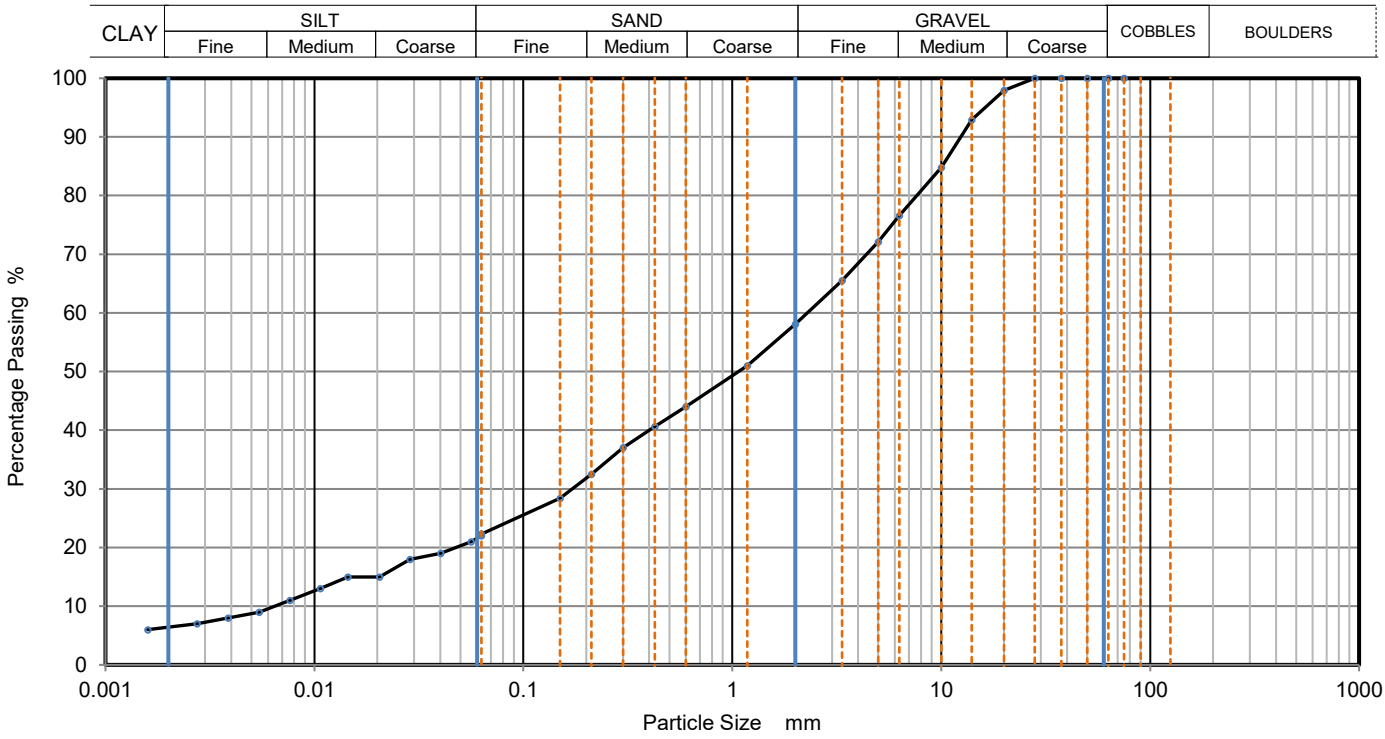
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M27
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown very silty very sandy fine and medium GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521225



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	22
		0.0562	21
75	100	0.0402	19
63	100	0.0286	18
50	100	0.0205	15
37.5	100	0.0145	15
28	100	0.0107	13
20	98	0.0076	11
14	93	0.0054	9
10	85	0.0039	8
6.3	77	0.0027	7
5	72	0.0016	6
3.35	66		
2	58		
1.18	51		
0.6	44	Particle density (assumed)	
0.425	41	2.65 Mg/m3	
0.3	37		
0.212	33		
0.15	28		
0.063	22		

Dry Mass of sample, g	577

Sample Proportions	% dry mass
Very coarse	0
Gravel	42
Sand	36
Silt	16
Clay	6

Grading Analysis		
D100	mm	
D60	mm	2.28
D30	mm	0.172
D10	mm	0.00648
Uniformity Coefficient		350
Curvature Coefficient		2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

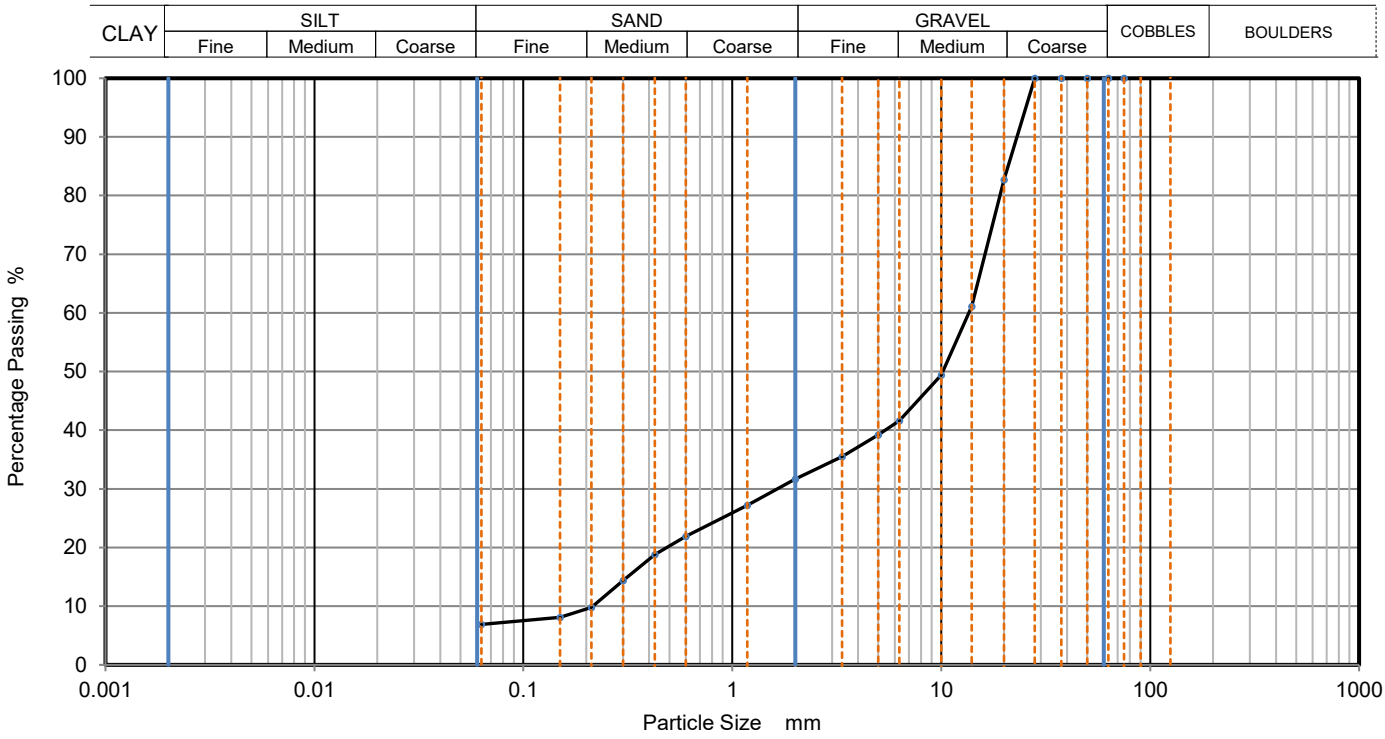
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M28
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty very sandy medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250521228



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	83		
14	61		
10	49		
6.3	42		
5	39		
3.35	36		
2	32		
1.18	27		
0.6	22		
0.425	19		
0.3	14		
0.212	10		
0.15	8		
0.063	7		

Dry Mass of sample, g: 843

Sample Proportions	% dry mass
Very coarse	0
Gravel	68
Sand	25
Fines <0.063mm	7

Grading Analysis		
D100	mm	
D60	mm	13.5
D30	mm	1.64
D10	mm	0.216
Uniformity Coefficient		63
Curvature Coefficient		0.92

Remarks

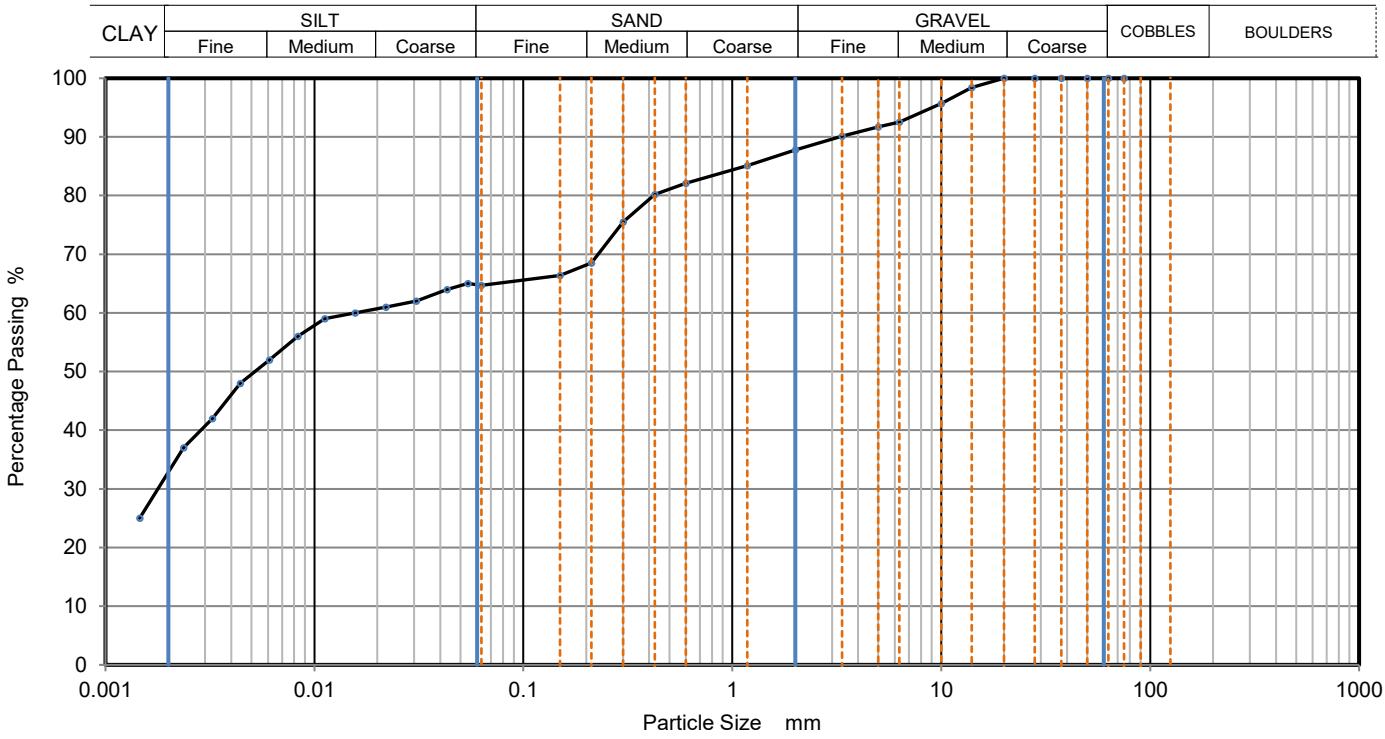
Preparation and testing in accordance with BS1377 unless noted below

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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M28
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown slightly gravelly slightly sandy SILT.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521230



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0542	65
		0.0431	64
75	100	0.0308	62
63	100	0.0220	61
50	100	0.0157	60
37.5	100	0.0112	59
28	100	0.0083	56
20	100	0.0061	52
14	98	0.0044	48
10	96	0.0032	42
6.3	93	0.0024	37
5	92	0.0015	25
3.35	90		
2	88		
1.18	85		
0.6	82	Particle density (assumed)	
0.425	80	2.65 Mg/m3	
0.3	76		
0.212	69		
0.15	66		
0.063	65		

Dry Mass of sample, g	575

Sample Proportions	% dry mass
Very coarse	0
Gravel	12
Sand	23
Silt	32
Clay	33

Grading Analysis		
D100	mm	
D60	mm	0.0161
D30	mm	0.00177
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

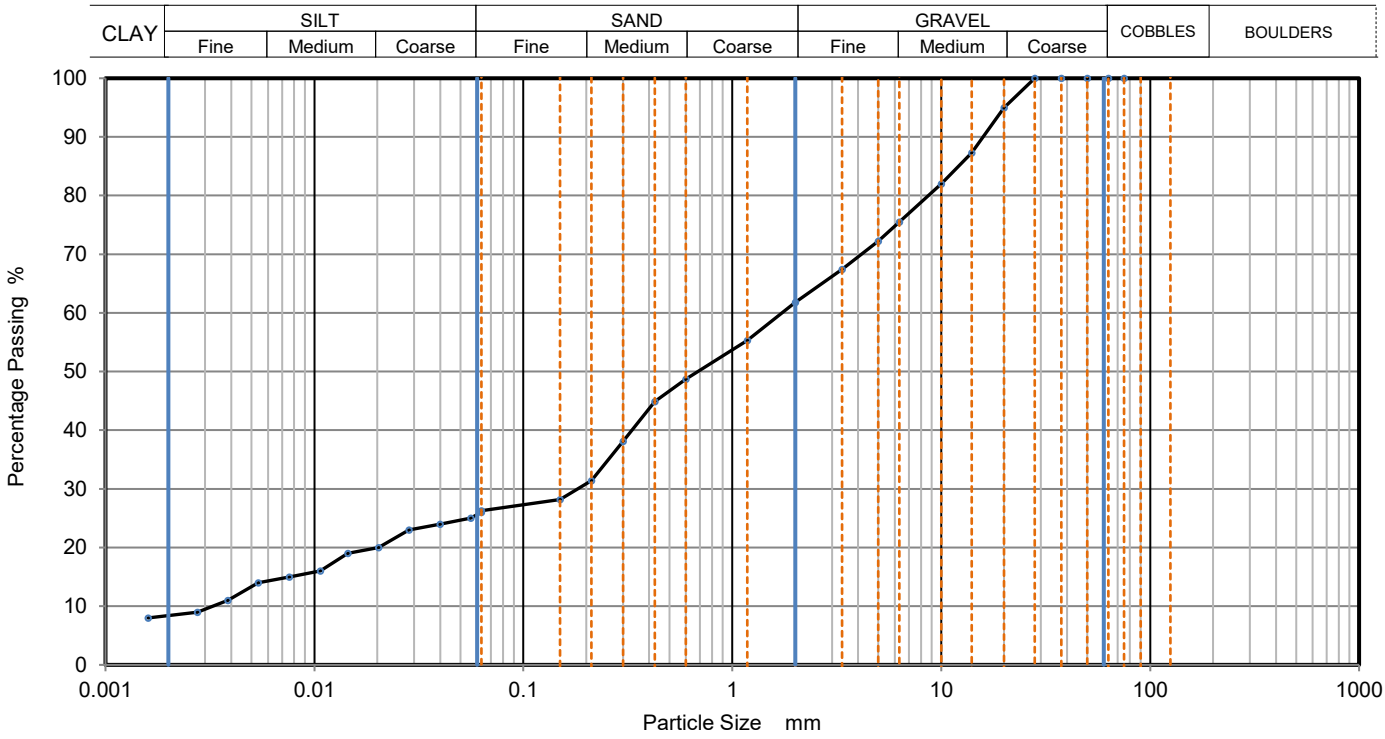
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M28
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Light brown very silty SAND and GRAVEL.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521232



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	26
		0.0560	25
75	100	0.0399	24
63	100	0.0284	23
50	100	0.0203	20
37.5	100	0.0144	19
28	100	0.0107	16
20	95	0.0076	15
14	87	0.0054	14
10	82	0.0039	11
6.3	76	0.0028	9
5	72	0.0016	8
3.35	67		
2	62		
1.18	55		
0.6	49	Particle density (assumed)	
0.425	45	2.65 Mg/m3	
0.3	38		
0.212	31		
0.15	28		
0.063	26		

Dry Mass of sample, g	859

Sample Proportions	% dry mass
Very coarse	0
Gravel	38
Sand	36
Silt	18
Clay	8

Grading Analysis		
D100	mm	
D60	mm	1.73
D30	mm	0.182
D10	mm	0.00325
Uniformity Coefficient		530
Curvature Coefficient		5.9

Remarks

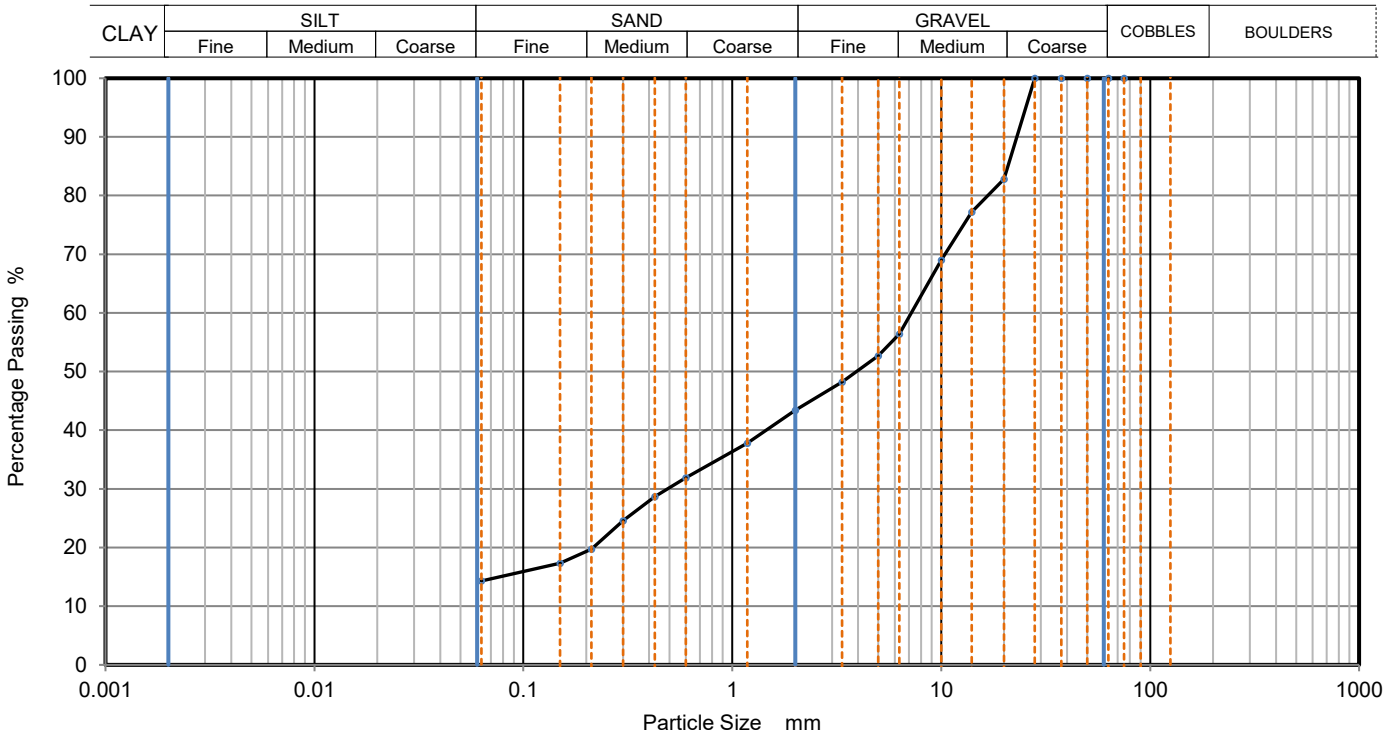
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M29
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown silty very sandy medium GRAVEL.			Depth, m	0.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250521235



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	83		
14	77		
10	69		
6.3	56		
5	53		
3.35	48		
2	43		
1.18	38		
0.6	32		
0.425	29		
0.3	25		
0.212	20		
0.15	17		
0.063	14		

Dry Mass of sample, g	802

Sample Proportions	% dry mass
Very coarse	0
Gravel	57
Sand	29
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	7.19
D30	mm	0.49
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

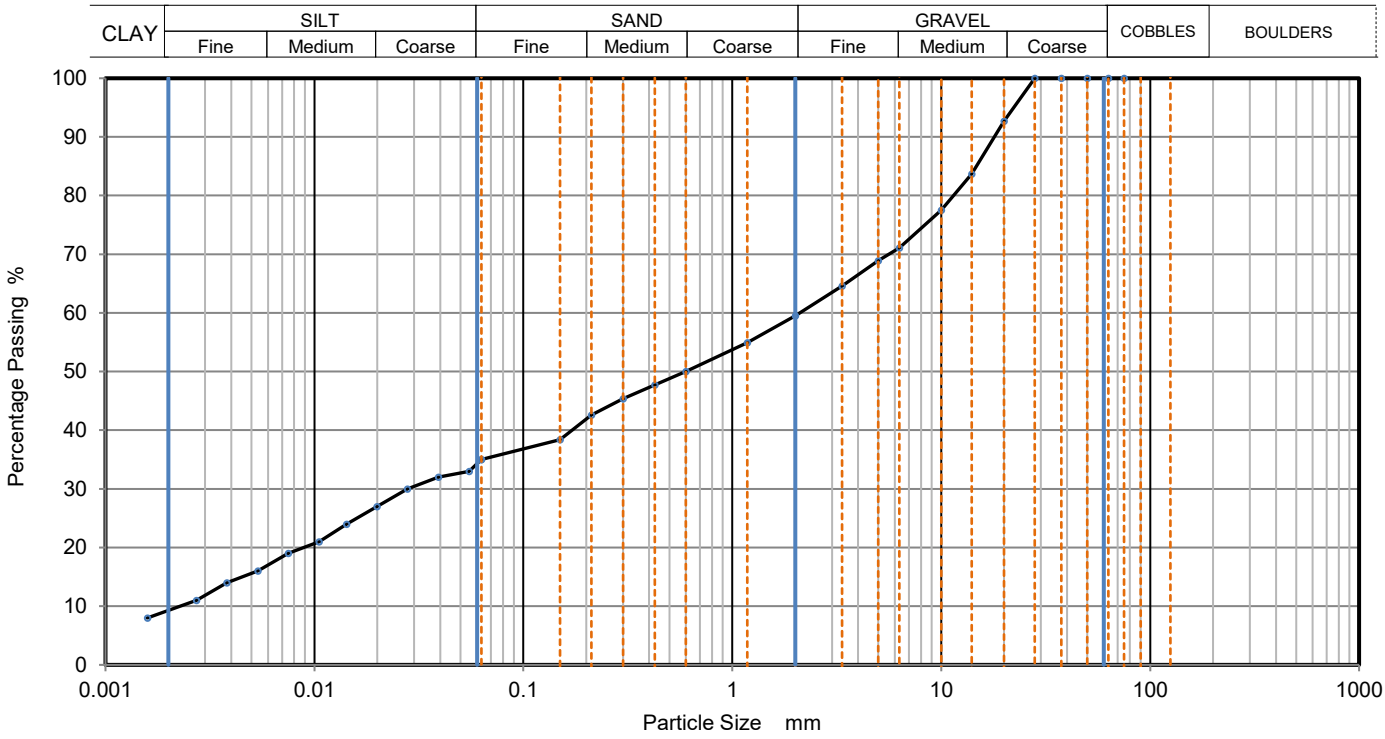
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M29
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light slightly sandy gravelly SILT. Gravel is medium.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521237



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	35
		0.0550	33
75	100	0.0392	32
63	100	0.0279	30
50	100	0.0199	27
37.5	100	0.0143	24
28	100	0.0105	21
20	93	0.0075	19
14	84	0.0054	16
10	78	0.0038	14
6.3	71	0.0027	11
5	69	0.0016	8
3.35	65		
2	60		
1.18	55		
0.6	50	Particle density (assumed)	
0.425	48	2.65	Mg/m3
0.3	45		
0.212	43		
0.15	38		
0.063	35		

Dry Mass of sample, g	743

Sample Proportions	% dry mass
Very coarse	0
Gravel	41
Sand	25
Silt	26
Clay	9

Grading Analysis		
D100	mm	
D60	mm	2.1
D30	mm	0.0272
D10	mm	0.00224
Uniformity Coefficient		940
Curvature Coefficient		0.16

Remarks

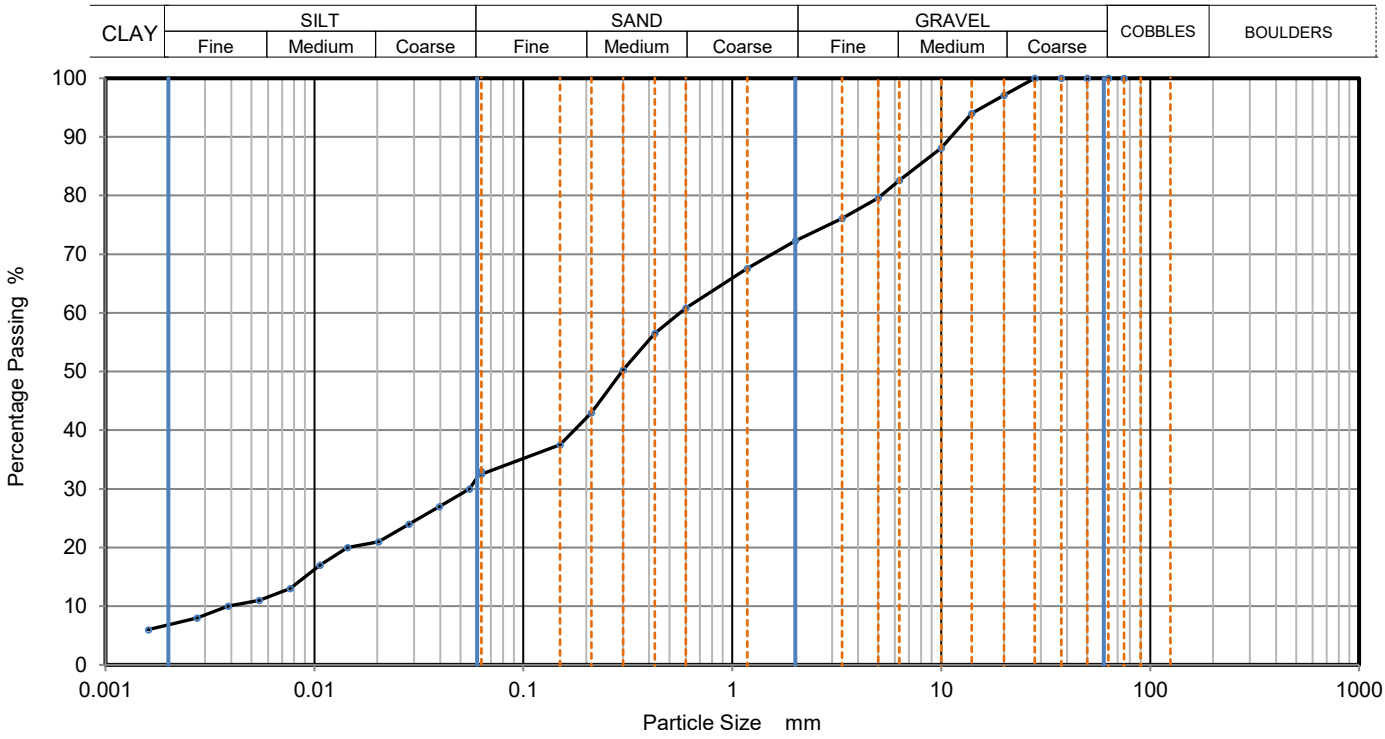
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M30
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown very gravelly very silty SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521239



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	33
		0.0553	30
75	100	0.0396	27
63	100	0.0283	24
50	100	0.0203	21
37.5	100	0.0144	20
28	100	0.0106	17
20	97	0.0076	13
14	94	0.0054	11
10	88	0.0039	10
6.3	83	0.0027	8
5	80	0.0016	6
3.35	76		
2	72		
1.18	68		
0.6	61	Particle density (assumed)	
0.425	57	2.65 Mg/m3	
0.3	50		
0.212	43		
0.15	38		
0.063	33		

Dry Mass of sample, g	729

Sample Proportions	% dry mass
Very coarse	0
Gravel	28
Sand	40
Silt	26
Clay	7

Grading Analysis		
D100	mm	
D60	mm	0.563
D30	mm	0.0561
D10	mm	0.00397
Uniformity Coefficient		140
Curvature Coefficient		1.4

Remarks

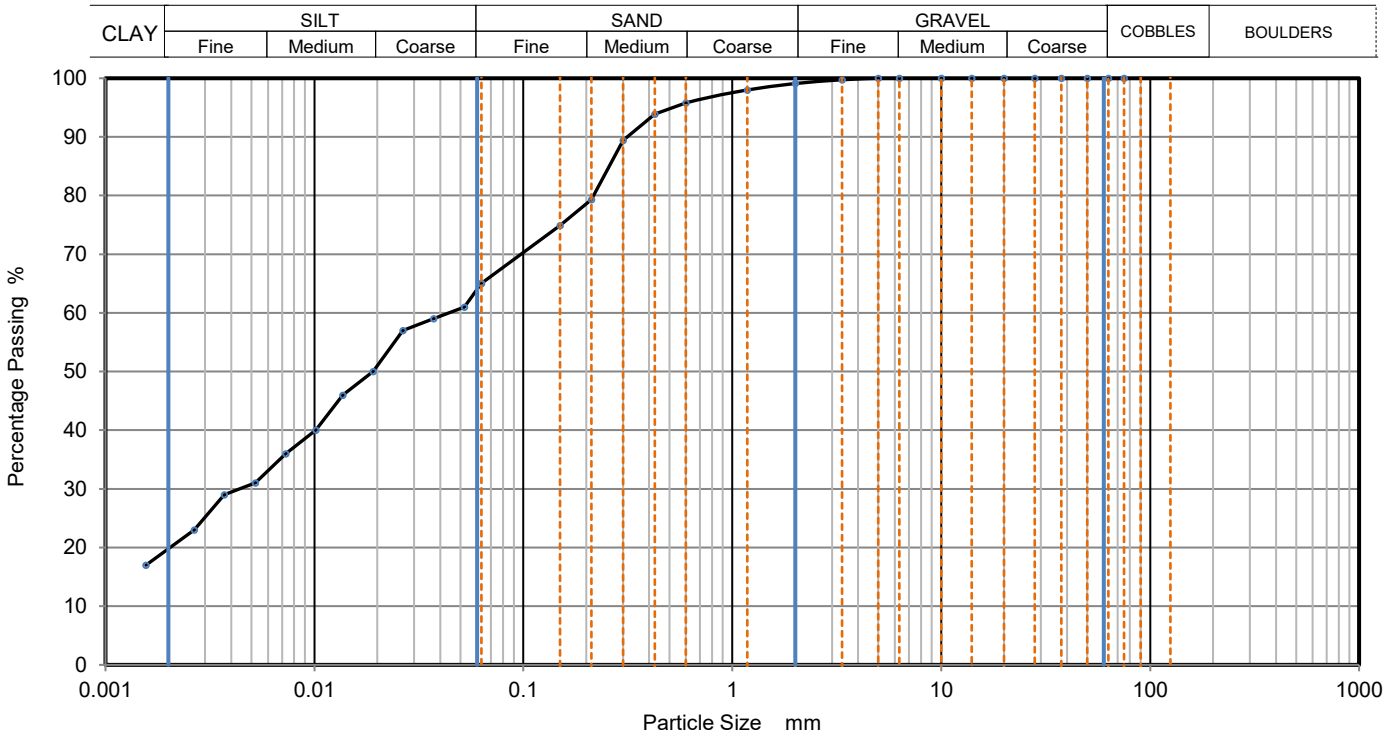
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M30
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown slightly sandy SILT.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521241



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	65
		0.0523	61
75	100	0.0372	59
63	100	0.0265	57
50	100	0.0191	50
37.5	100	0.0137	46
28	100	0.0102	40
20	100	0.0073	36
14	100	0.0052	31
10	100	0.0037	29
6.3	100	0.0027	23
5	100	0.0016	17
3.35	100		
2	99		
1.18	98		
0.6	96	Particle density (assumed)	
0.425	94	2.65	Mg/m3
0.3	89		
0.212	79		
0.15	75		
0.063	65		

Dry Mass of sample, g	719

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	34
Silt	45
Clay	20

Grading Analysis		
D100	mm	
D60	mm	0.0459
D30	mm	0.00411
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

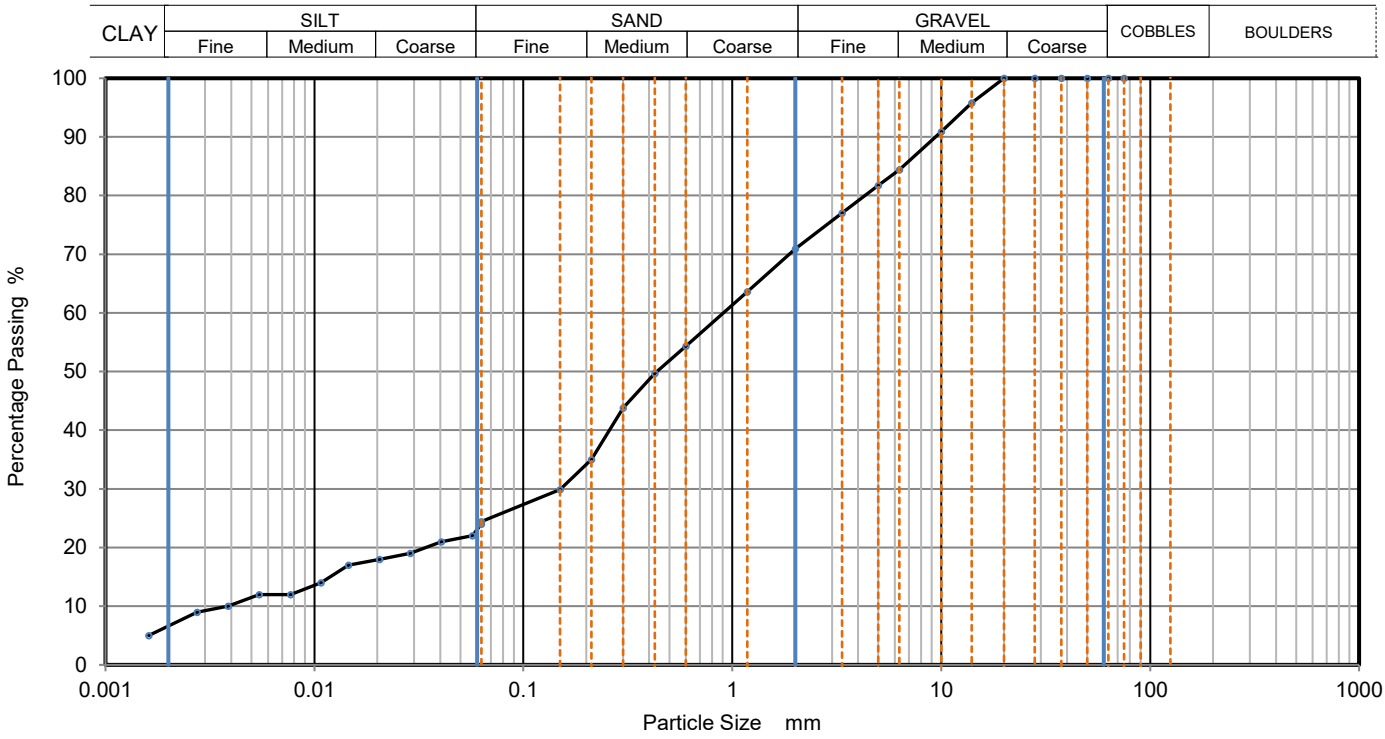
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M30A
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown very silty very gravelly SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521243



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	24
		0.0569	22
75	100	0.0405	21
63	100	0.0288	19
50	100	0.0205	18
37.5	100	0.0146	17
28	100	0.0108	14
20	100	0.0077	12
14	96	0.0054	12
10	91	0.0039	10
6.3	84	0.0027	9
5	82	0.0016	5
3.35	77		
2	71		
1.18	64		
0.6	54	Particle density (assumed)	
0.425	50	2.65 Mg/m3	
0.3	44		
0.212	35		
0.15	30		
0.063	24		

Dry Mass of sample, g	735

Sample Proportions	% dry mass
Very coarse	0
Gravel	29
Sand	47
Silt	18
Clay	7

Grading Analysis		
D100	mm	
D60	mm	0.908
D30	mm	0.151
D10	mm	0.00359
Uniformity Coefficient		250
Curvature Coefficient		7

Remarks

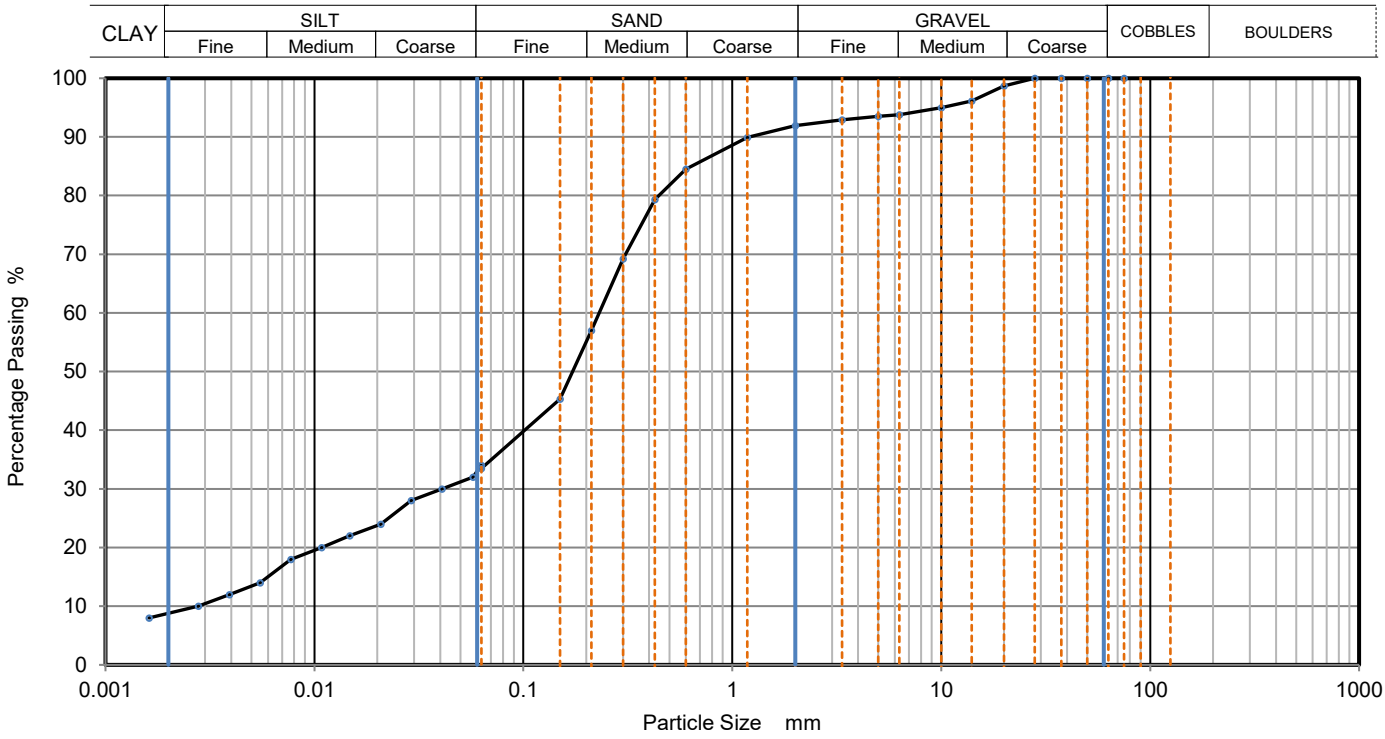
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M30A
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Grey gravelly very silty fine and medium SAND.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521247



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	34
		0.0574	32
75	100	0.0408	30
63	100	0.0290	28
50	100	0.0208	24
37.5	100	0.0148	22
28	100	0.0108	20
20	99	0.0077	18
14	96	0.0055	14
10	95	0.0039	12
6.3	94	0.0028	10
5	94	0.0016	8
3.35	93		
2	92		
1.18	90		
0.6	85	Particle density (assumed)	
0.425	79	2.65 Mg/m3	
0.3	69		
0.212	57		
0.15	45		
0.063	34		

Dry Mass of sample, g	715

Sample Proportions	% dry mass
Very coarse	0
Gravel	8
Sand	58
Silt	25
Clay	9

Grading Analysis		
D100	mm	
D60	mm	0.231
D30	mm	0.0441
D10	mm	0.00285
Uniformity Coefficient		81
Curvature Coefficient		2.9

Remarks

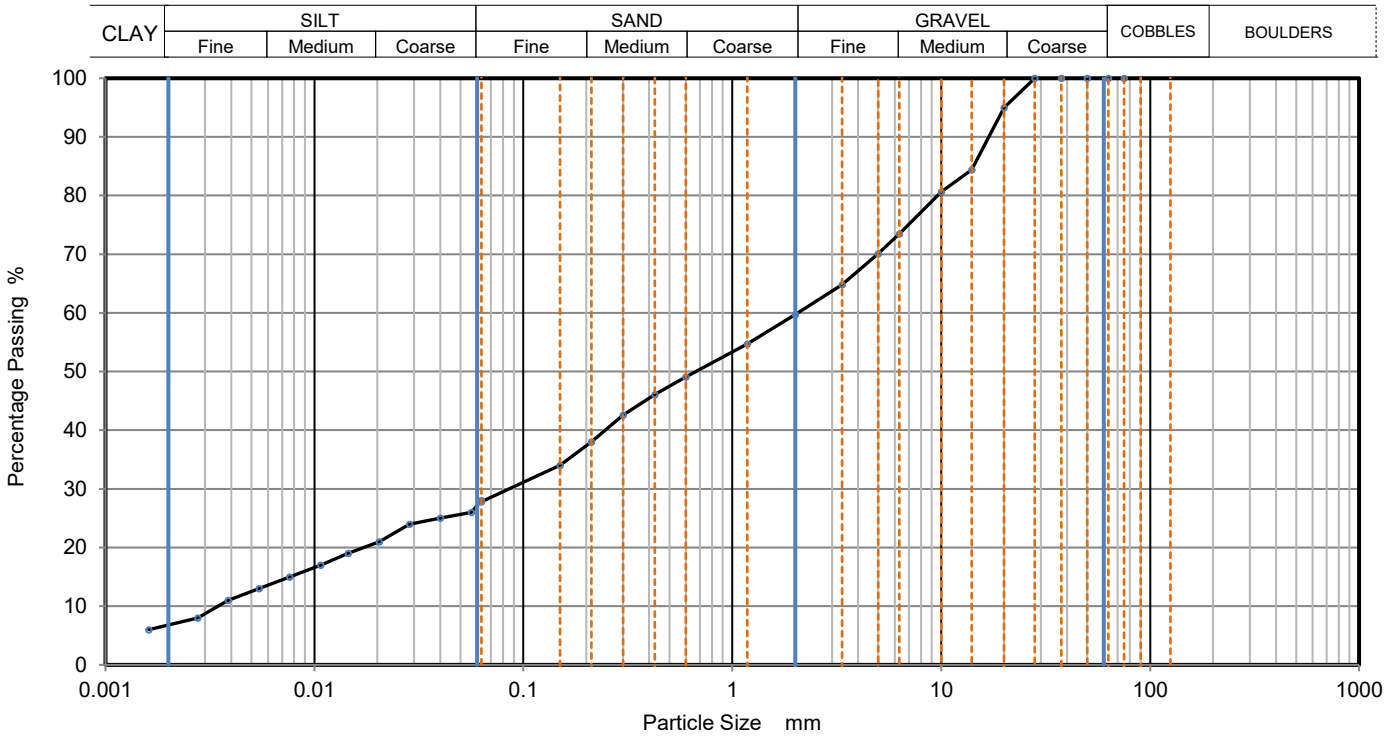
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M30B
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown very silty very sandy medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250521249



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	28
		0.0563	26
75	100	0.0401	25
63	100	0.0285	24
50	100	0.0204	21
37.5	100	0.0145	19
28	100	0.0107	17
20	95	0.0076	15
14	84	0.0054	13
10	81	0.0039	11
6.3	74	0.0028	8
5	70	0.0016	6
3.35	65		
2	60		
1.18	55		
0.6	49	Particle density (assumed)	
0.425	46	2.65 Mg/m3	
0.3	43		
0.212	38		
0.15	34		
0.063	28		

Dry Mass of sample, g	726

Sample Proportions	% dry mass
Very coarse	0
Gravel	40
Sand	32
Silt	21
Clay	7

Grading Analysis		
D100	mm	
D60	mm	2.06
D30	mm	0.0855
D10	mm	0.00338
Uniformity Coefficient		610
Curvature Coefficient		1

Remarks

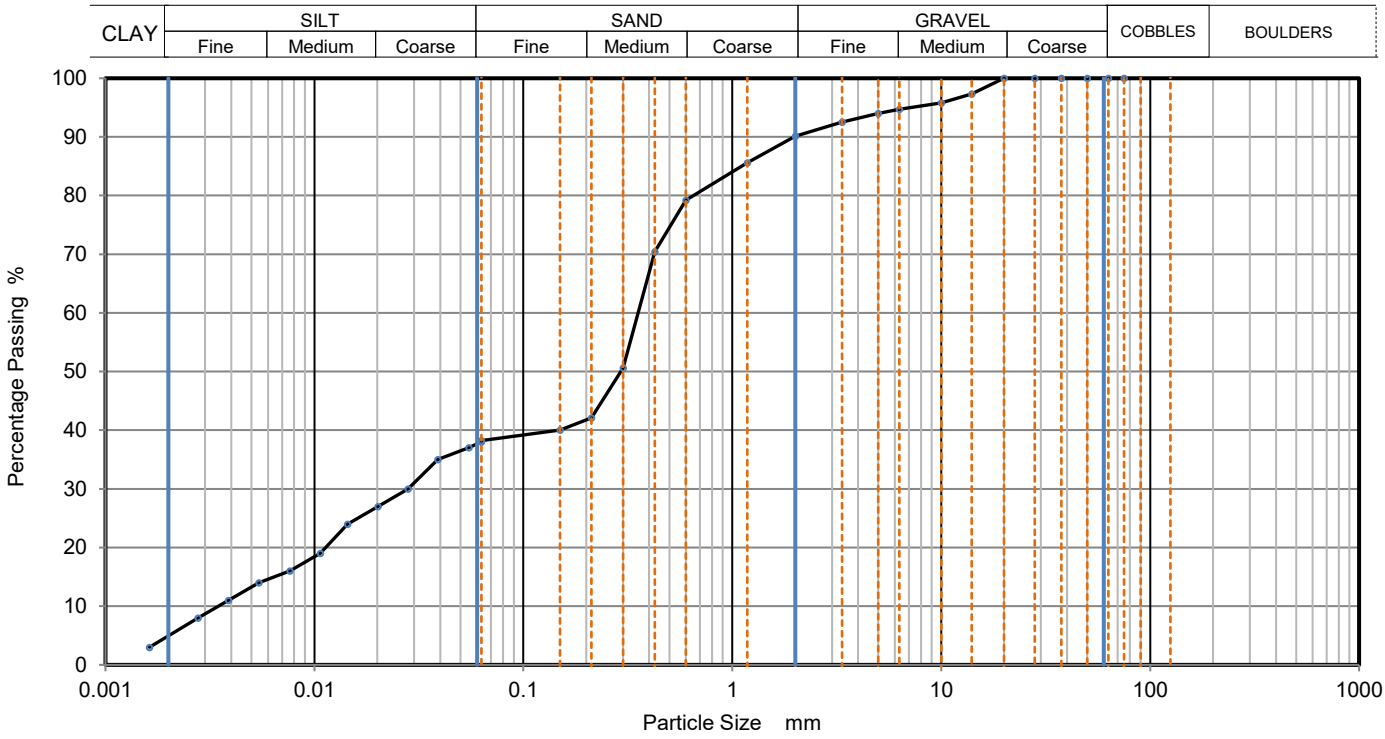
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M30C
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown slightly silty sandy SILT. Sand is medium.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202507150



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	38
		0.0548	37
75	100	0.0390	35
63	100	0.0281	30
50	100	0.0201	27
37.5	100	0.0144	24
28	100	0.0107	19
20	100	0.0076	16
14	97	0.0054	14
10	96	0.0039	11
6.3	95	0.0028	8
5	94	0.0016	3
3.35	93		
2	90		
1.18	86		
0.6	79	Particle density (assumed)	
0.425	70	2.65 Mg/m3	
0.3	51		
0.212	42		
0.15	40		
0.063	38		

Dry Mass of sample, g	624

Sample Proportions	% dry mass
Very coarse	0
Gravel	10
Sand	52
Silt	33
Clay	5

Grading Analysis		
D100	mm	
D60	mm	0.354
D30	mm	0.0274
D10	mm	0.00344
Uniformity Coefficient		100
Curvature Coefficient		0.62

Remarks

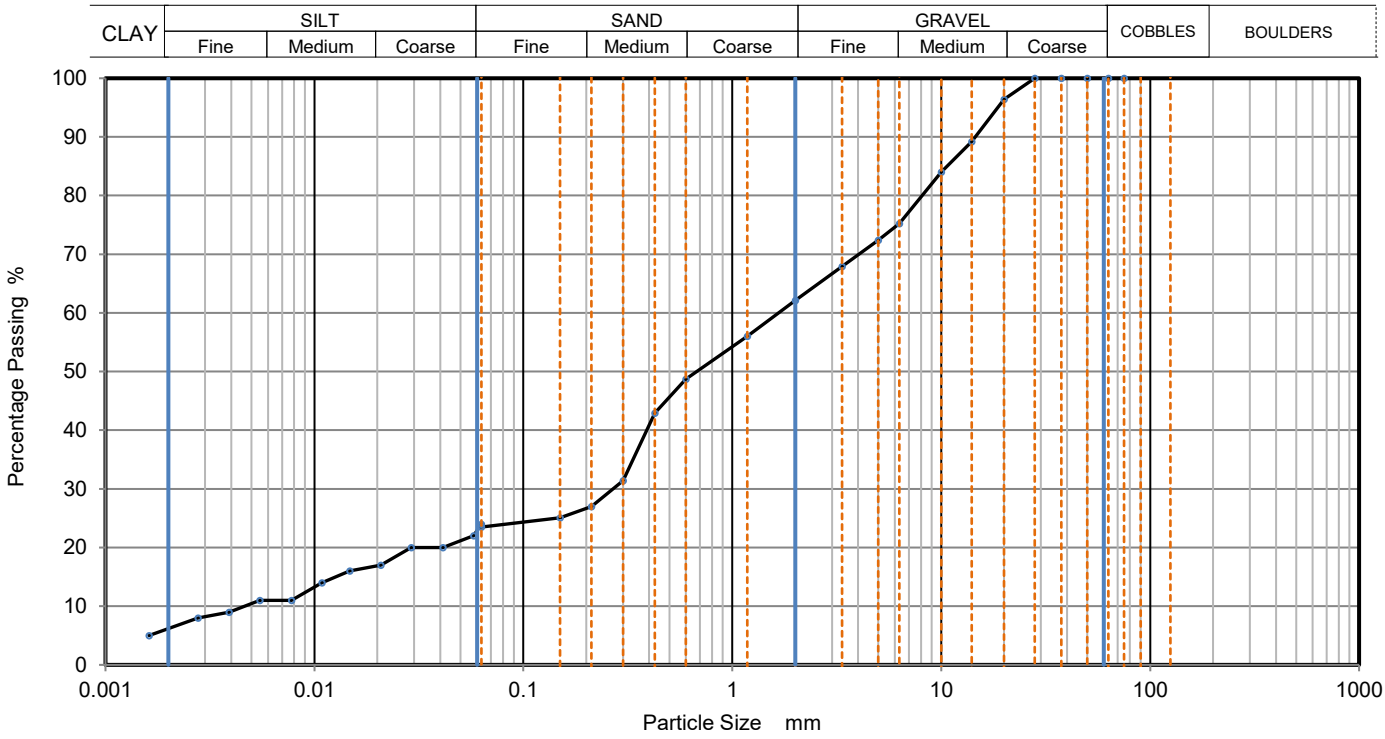
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M30C
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown very silty medium SAND and medium GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202507152



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	24
		0.0578	22
75	100	0.0411	20
63	100	0.0291	20
50	100	0.0208	17
37.5	100	0.0148	16
28	100	0.0109	14
20	96	0.0078	11
14	89	0.0055	11
10	84	0.0039	9
6.3	75	0.0028	8
5	72	0.0016	5
3.35	68		
2	62		
1.18	56		
0.6	49	Particle density (assumed)	
0.425	43	2.65	Mg/m3
0.3	31		
0.212	27		
0.15	25		
0.063	24		

Dry Mass of sample, g	771

Sample Proportions	% dry mass
Very coarse	0
Gravel	38
Sand	39
Silt	18
Clay	6

Grading Analysis		
D100	mm	
D60	mm	1.67
D30	mm	0.269
D10	mm	0.00444
Uniformity Coefficient		380
Curvature Coefficient		9.7

Remarks

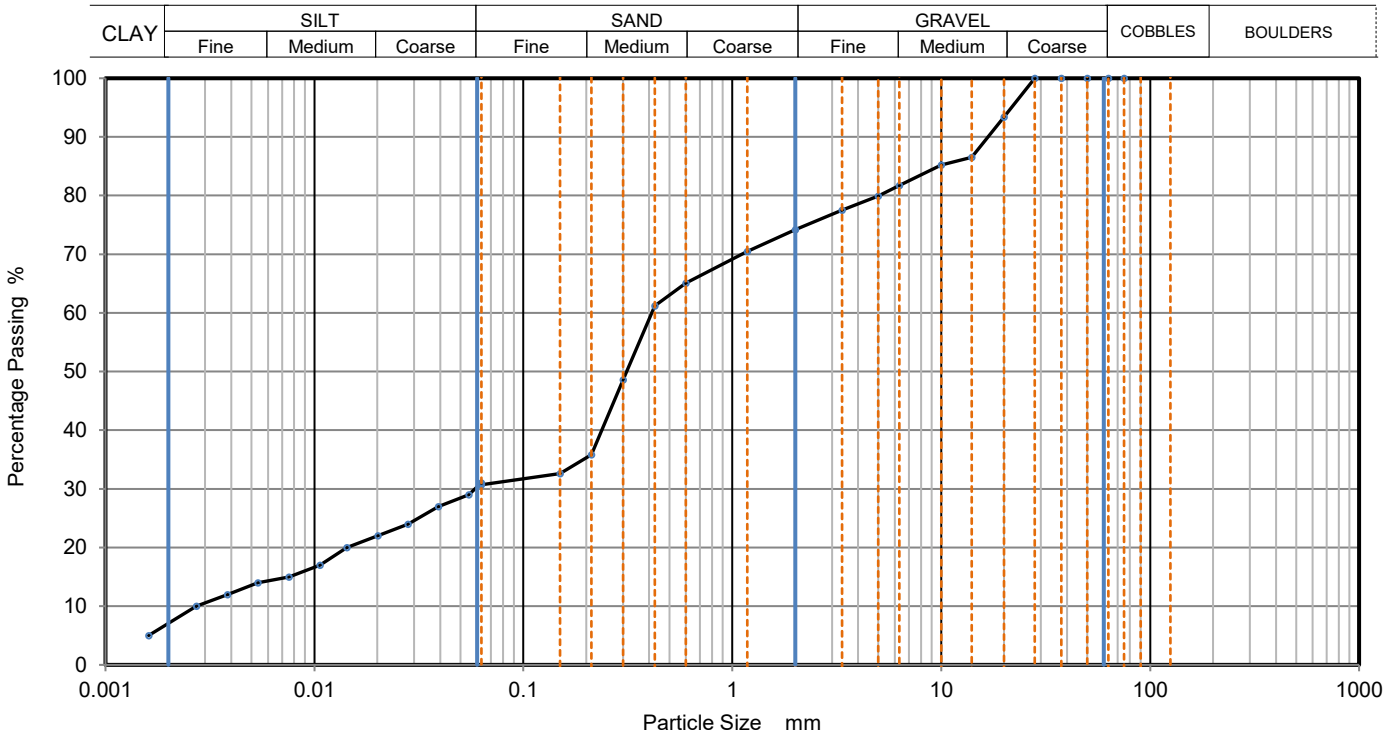
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M31
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown very gravelly very silty medium SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202507154



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	31
		0.0548	29
75	100	0.0392	27
63	100	0.0281	24
50	100	0.0201	22
37.5	100	0.0143	20
28	100	0.0106	17
20	93	0.0076	15
14	87	0.0054	14
10	85	0.0038	12
6.3	82	0.0027	10
5	80	0.0016	5
3.35	78		
2	74		
1.18	71		
0.6	65	Particle density (assumed)	
0.425	61	2.65	Mg/m3
0.3	49		
0.212	36		
0.15	33		
0.063	31		

Dry Mass of sample, g	712

Sample Proportions	% dry mass
Very coarse	0
Gravel	26
Sand	43
Silt	24
Clay	7

Grading Analysis		
D100	mm	
D60	mm	0.411
D30	mm	0.0583
D10	mm	0.00266
Uniformity Coefficient		150
Curvature Coefficient		3.1

Remarks

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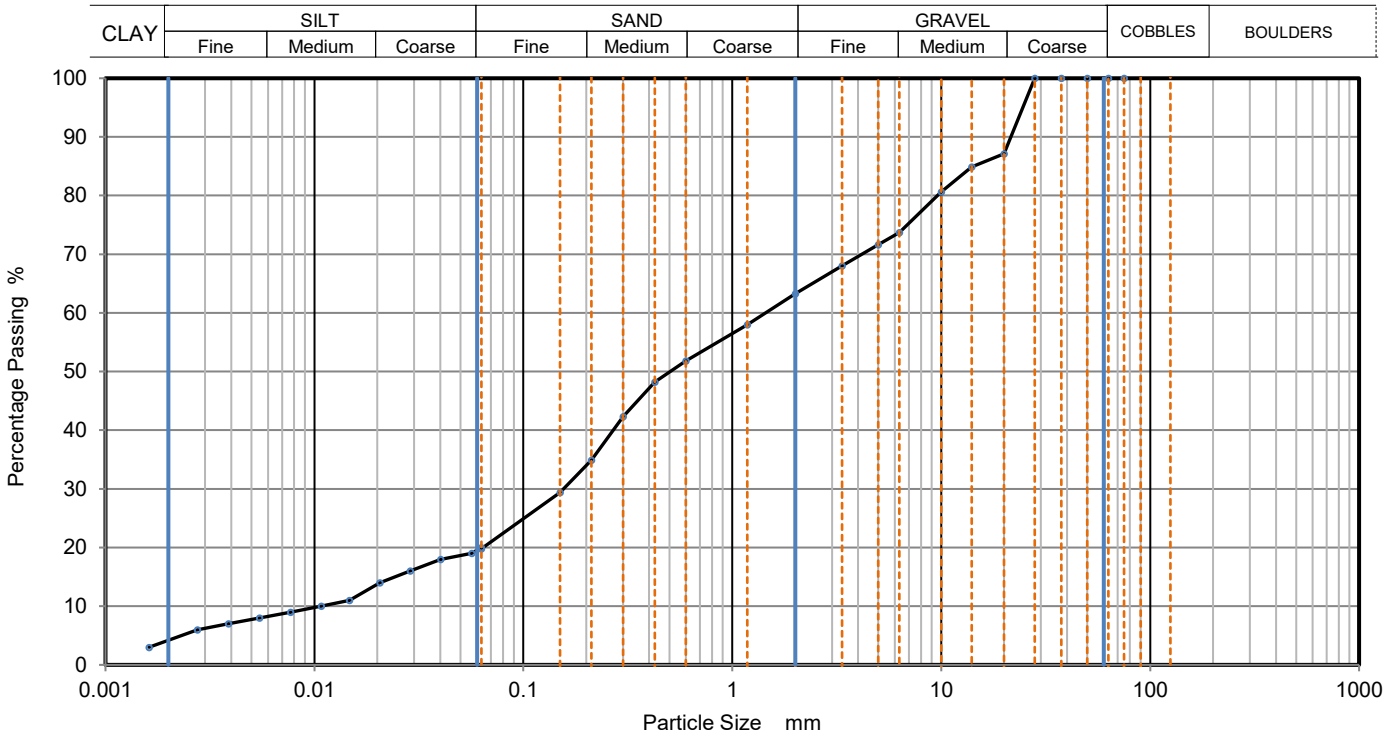
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M31
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown very silty very gravelly SAND.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202507156



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	20
		0.0565	19
75	100	0.0402	18
63	100	0.0288	16
50	100	0.0206	14
37.5	100	0.0147	11
28	100	0.0108	10
20	87	0.0077	9
14	85	0.0055	8
10	81	0.0039	7
6.3	74	0.0028	6
5	72	0.0016	3
3.35	68		
2	63		
1.18	58		
0.6	52	Particle density (assumed)	
0.425	48	2.65	Mg/m3
0.3	42		
0.212	35		
0.15	29		
0.063	20		

Dry Mass of sample, g	743

Sample Proportions	% dry mass
Very coarse	0
Gravel	37
Sand	43
Silt	16
Clay	4

Grading Analysis		
D100	mm	
D60	mm	1.44
D30	mm	0.155
D10	mm	0.00941
Uniformity Coefficient		150
Curvature Coefficient		1.8

Remarks

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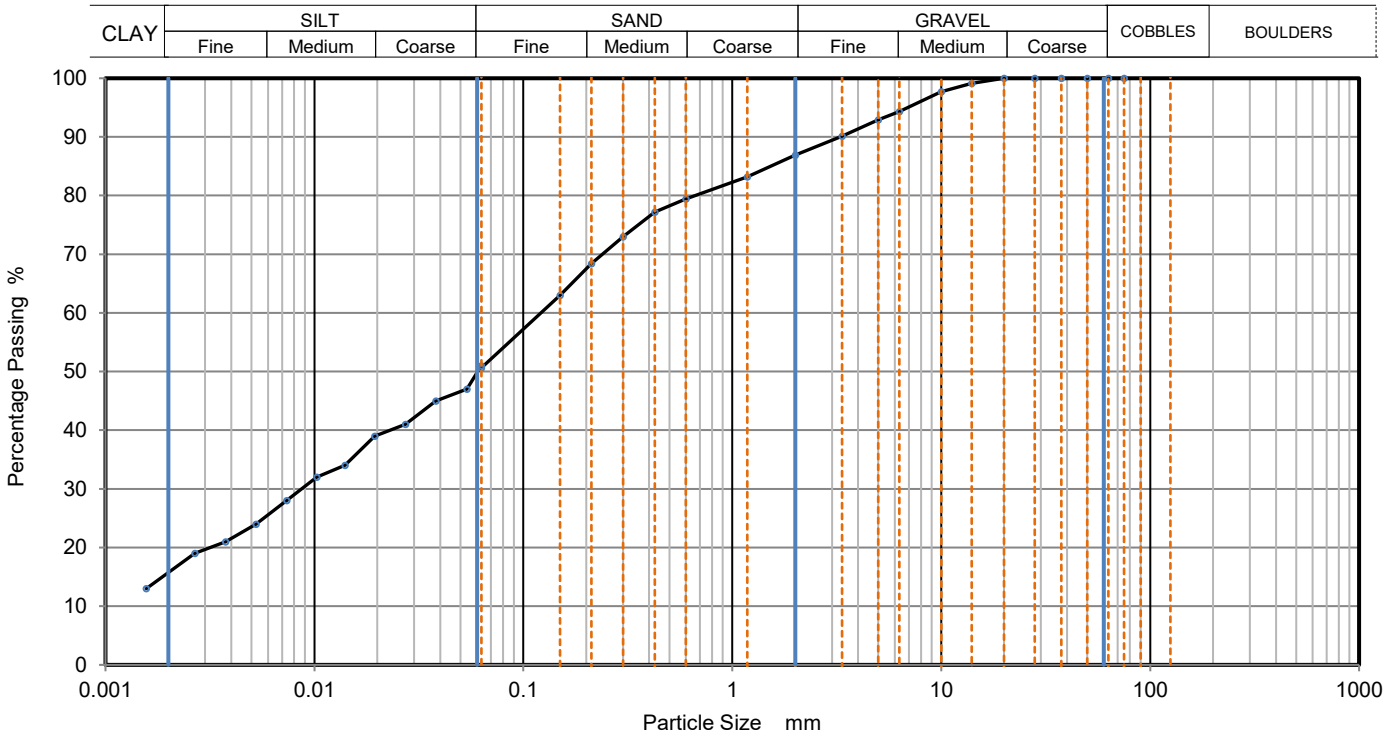
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M32
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly gravelly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202507159



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	51
		0.0536	47
75	100	0.0381	45
63	100	0.0273	41
50	100	0.0194	39
37.5	100	0.0140	34
28	100	0.0103	32
20	100	0.0074	28
14	99	0.0053	24
10	98	0.0038	21
6.3	94	0.0027	19
5	93	0.0016	13
3.35	90		
2	87		
1.18	83		
0.6	79	Particle density (assumed)	
0.425	77	2.65	Mg/m3
0.3	73		
0.212	68		
0.15	63		
0.063	51		

Dry Mass of sample, g	599

Sample Proportions	% dry mass
Very coarse	0
Gravel	13
Sand	36
Silt	35
Clay	16

Grading Analysis		
D100	mm	
D60	mm	0.122
D30	mm	0.00871
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

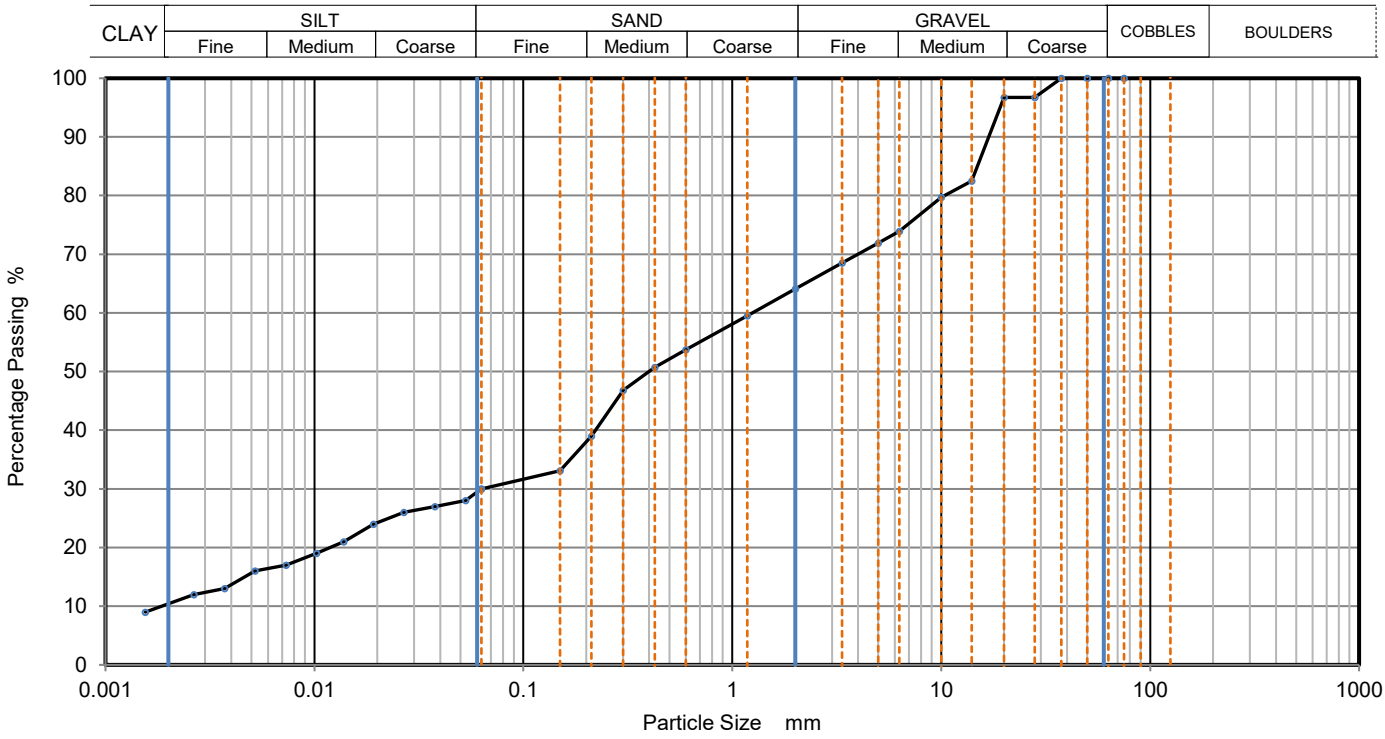
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M32
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown very silty SAND and GRAVEL. Gravel is medium.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071511



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	30
		0.0529	28
75	100	0.0377	27
63	100	0.0268	26
50	100	0.0192	24
37.5	100	0.0138	21
28	97	0.0102	19
20	97	0.0073	17
14	83	0.0052	16
10	80	0.0037	13
6.3	74	0.0026	12
5	72	0.0016	9
3.35	69		
2	64		
1.18	60		
0.6	54	Particle density (assumed)	
0.425	51	2.65 Mg/m3	
0.3	47		
0.212	39		
0.15	33		
0.063	30		

Dry Mass of sample, g	735

Sample Proportions	% dry mass
Very coarse	0
Gravel	36
Sand	34
Silt	19
Clay	11

Grading Analysis		
D100	mm	
D60	mm	1.25
D30	mm	
D10	mm	0.00175
Uniformity Coefficient		720
Curvature Coefficient		

Remarks

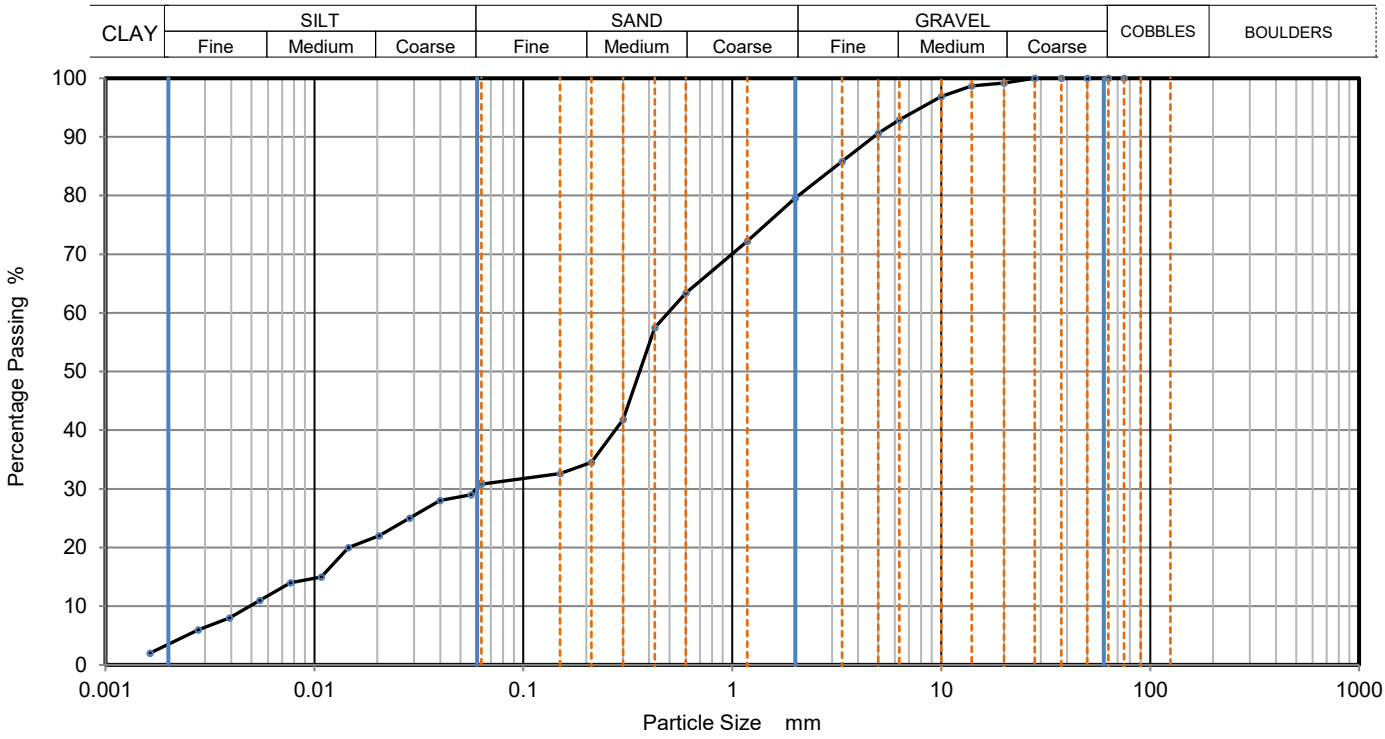
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M33
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown very gravelly very silty medium SAND.			Depth, m	0.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071513



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	31
		0.0562	29
75	100	0.0400	28
63	100	0.0286	25
50	100	0.0205	22
37.5	100	0.0145	20
28	100	0.0108	15
20	99	0.0077	14
14	99	0.0055	11
10	97	0.0039	8
6.3	93	0.0028	6
5	91	0.0016	2
3.35	86		
2	80		
1.18	72		
0.6	63	Particle density (assumed)	
0.425	58	2.65	Mg/m3
0.3	42		
0.212	35		
0.15	33		
0.063	31		

Dry Mass of sample, g	714

Sample Proportions	% dry mass
Very coarse	0
Gravel	20
Sand	49
Silt	28
Clay	3

Grading Analysis		
D100	mm	
D60	mm	0.492
D30	mm	0.0593
D10	mm	0.00504
Uniformity Coefficient		98
Curvature Coefficient		1.4

Remarks

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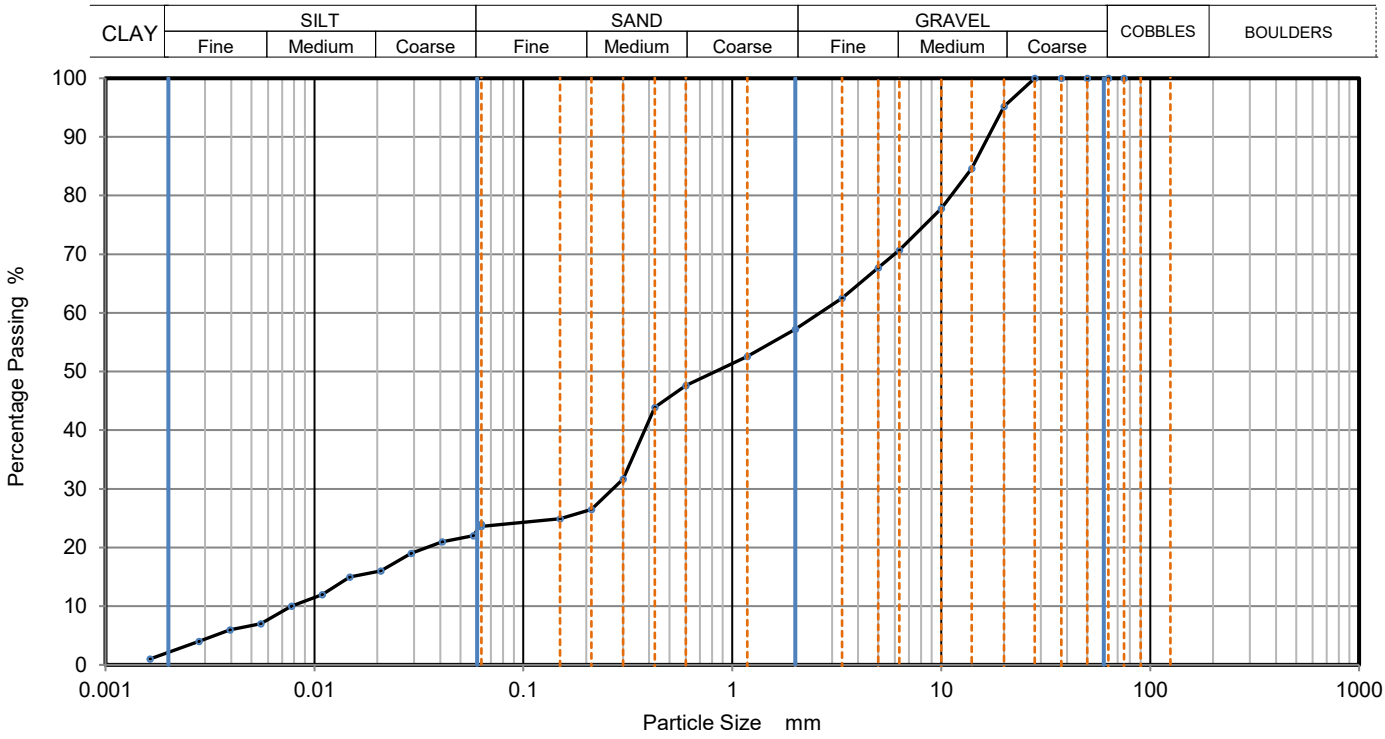
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M33
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown very silty very sandy medium GRAVEL.			Depth, m	1.20
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071515



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	24
		0.0575	22
75	100	0.0409	21
63	100	0.0291	19
50	100	0.0208	16
37.5	100	0.0148	15
28	100	0.0109	12
20	95	0.0078	10
14	85	0.0055	7
10	78	0.0039	6
6.3	71	0.0028	4
5	68	0.0016	1
3.35	63		
2	57		
1.18	53		
0.6	48	Particle density (assumed)	
0.425	44	2.65	Mg/m3
0.3	32		
0.212	27		
0.15	25		
0.063	24		

Dry Mass of sample, g	695

Sample Proportions	% dry mass
Very coarse	0
Gravel	43
Sand	34
Silt	21
Clay	3

Grading Analysis		
D100	mm	
D60	mm	2.63
D30	mm	0.268
D10	mm	0.00748
Uniformity Coefficient		350
Curvature Coefficient		3.7

Remarks

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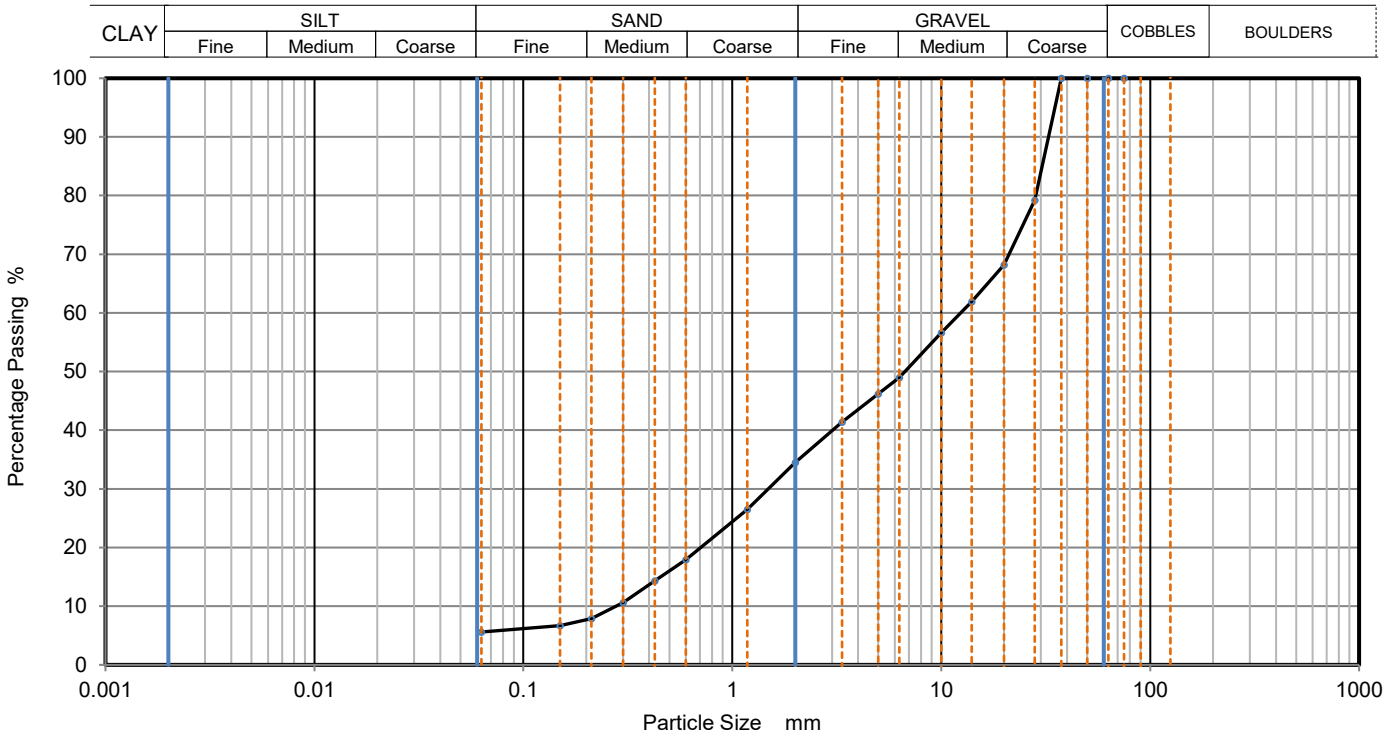
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M34
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown silty very sandy coarse GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071517



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	79		
20	68		
14	62		
10	57		
6.3	49		
5	46		
3.35	41		
2	35		
1.18	27		
0.6	18		
0.425	14		
0.3	11		
0.212	8		
0.15	7		
0.063	6		

Dry Mass of sample, g	789

Sample Proportions	% dry mass
Very coarse	0
Gravel	66
Sand	29
Fines <0.063mm	6

Grading Analysis		
D100	mm	
D60	mm	12.4
D30	mm	1.49
D10	mm	0.276
Uniformity Coefficient		45
Curvature Coefficient		0.64

Remarks

Preparation and testing in accordance with BS1377 unless noted below

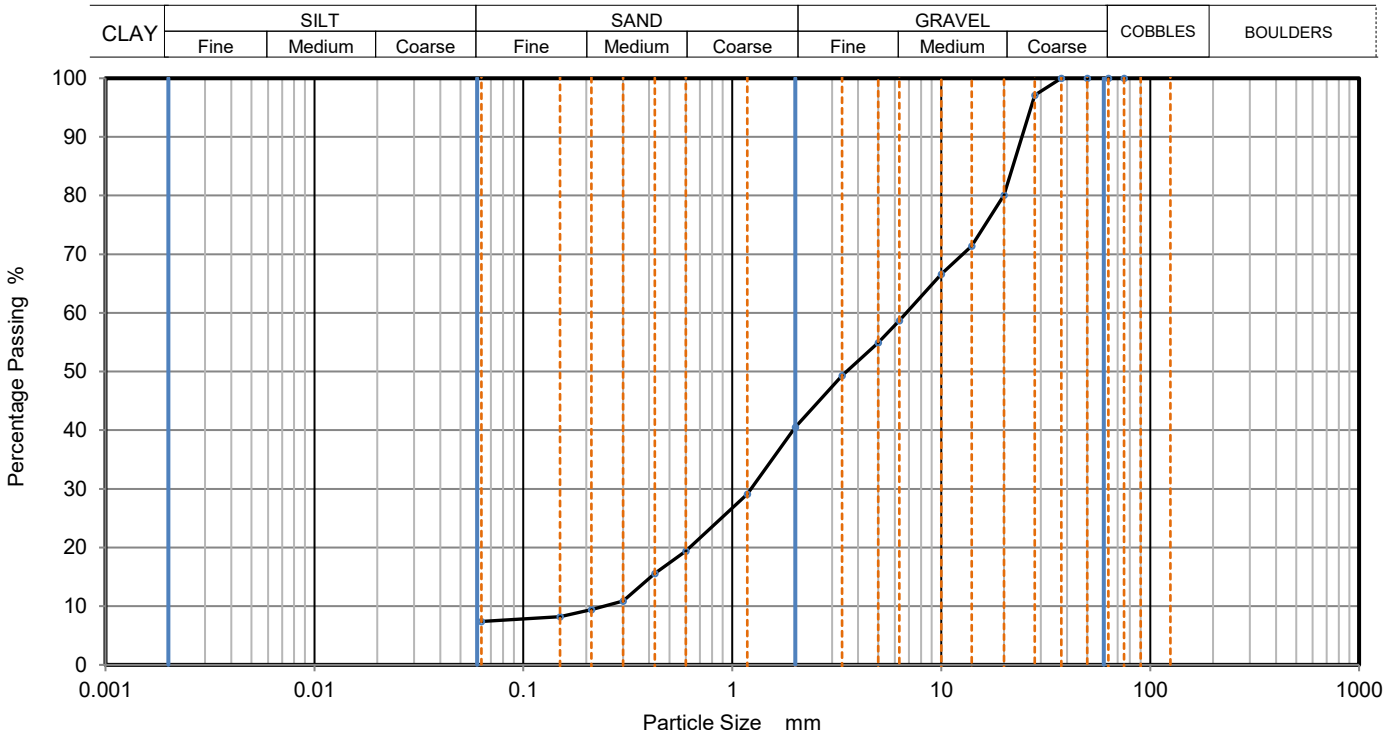
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M34
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown silty very sandy GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071519



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	97		
20	80		
14	71		
10	67		
6.3	59		
5	55		
3.35	49		
2	41		
1.18	29		
0.6	19		
0.425	16		
0.3	11		
0.212	9		
0.15	8		
0.063	7		

Dry Mass of sample, g	812

Sample Proportions	% dry mass
Very coarse	0
Gravel	60
Sand	33
Fines <0.063mm	7

Grading Analysis		
D100	mm	
D60	mm	6.8
D30	mm	1.23
D10	mm	0.244
Uniformity Coefficient		28
Curvature Coefficient		0.91

Remarks

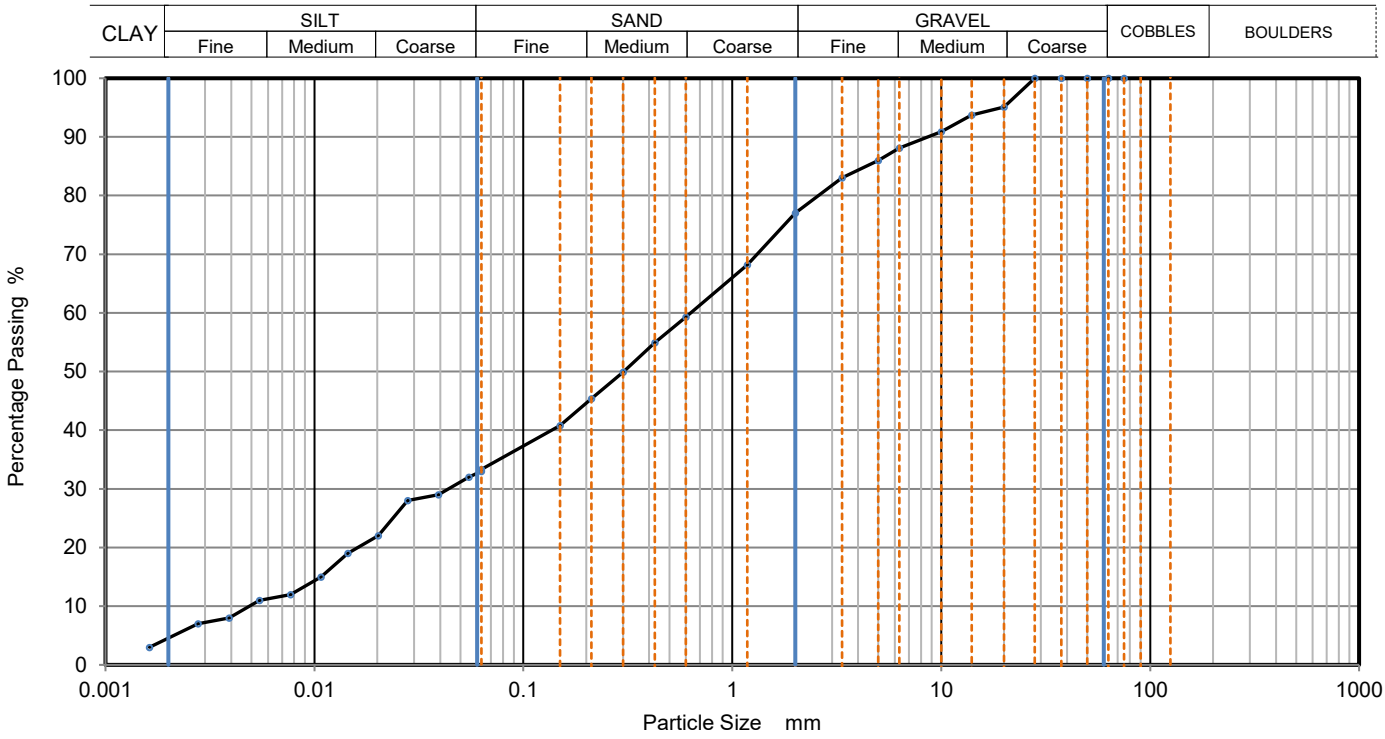
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M35
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown very gravelly very silty SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071522



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	33
		0.0548	32
75	100	0.0392	29
63	100	0.0279	28
50	100	0.0202	22
37.5	100	0.0145	19
28	100	0.0107	15
20	95	0.0077	12
14	94	0.0055	11
10	91	0.0039	8
6.3	88	0.0028	7
5	86	0.0016	3
3.35	83		
2	77		
1.18	68		
0.6	59	Particle density (assumed)	
0.425	55	2.65 Mg/m3	
0.3	50		
0.212	45		
0.15	41		
0.063	33		

Dry Mass of sample, g	643

Sample Proportions	% dry mass
Very coarse	0
Gravel	23
Sand	44
Silt	29
Clay	4

Grading Analysis		
D100	mm	
D60	mm	0.634
D30	mm	0.0435
D10	mm	0.00478
Uniformity Coefficient		130
Curvature Coefficient		0.63

Remarks

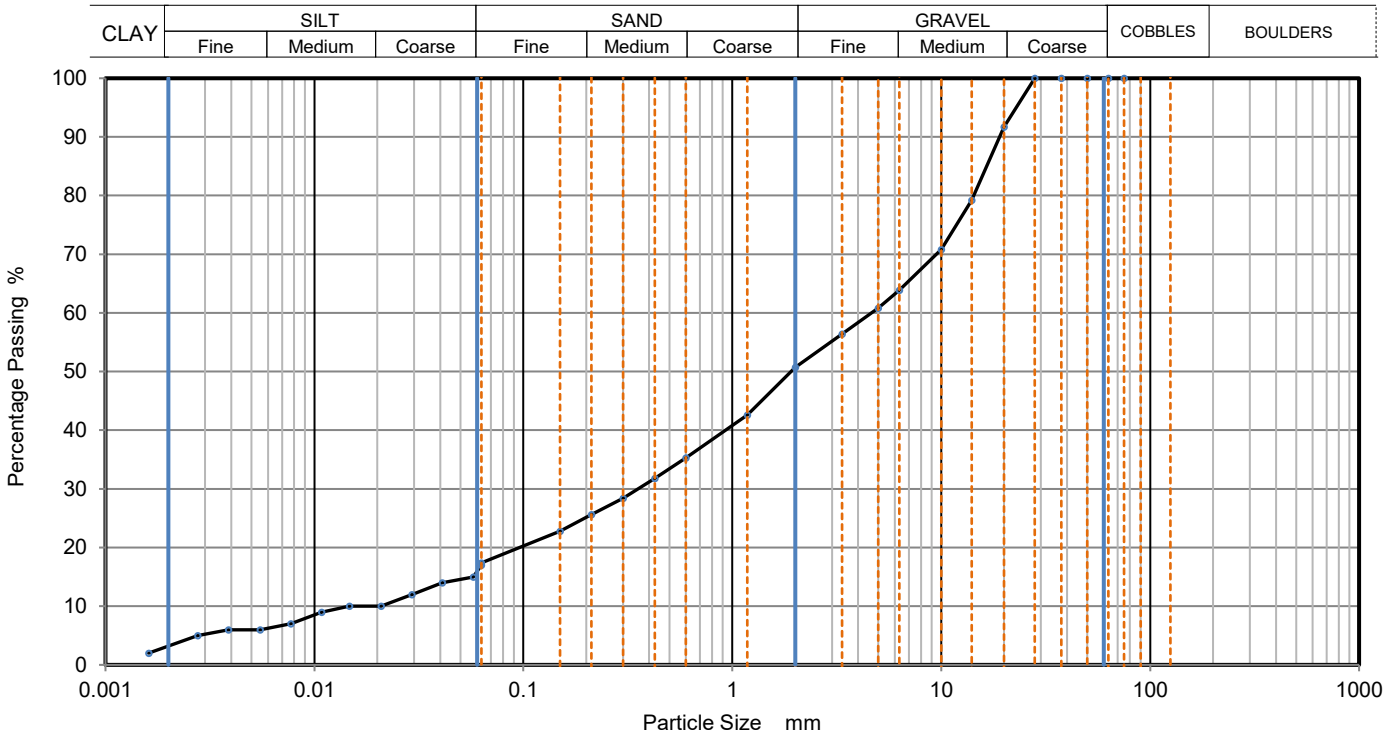
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

	PARTICLE SIZE DISTRIBUTION			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M36
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty very sandy medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071525



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	17
		0.0576	15
75	100	0.0410	14
63	100	0.0293	12
50	100	0.0208	10
37.5	100	0.0147	10
28	100	0.0108	9
20	92	0.0077	7
14	79	0.0055	6
10	71	0.0039	6
6.3	64	0.0028	5
5	61	0.0016	2
3.35	56		
2	51		
1.18	43		
0.6	35	Particle density (assumed)	
0.425	32	2.65 Mg/m3	
0.3	28		
0.212	26		
0.15	23		
0.063	17		

Dry Mass of sample, g	749

Sample Proportions	% dry mass
Very coarse	0
Gravel	49
Sand	33
Silt	14
Clay	3

Grading Analysis		
D100	mm	
D60	mm	4.65
D30	mm	0.354
D10	mm	0.0131
Uniformity Coefficient		360
Curvature Coefficient		2.1

Remarks

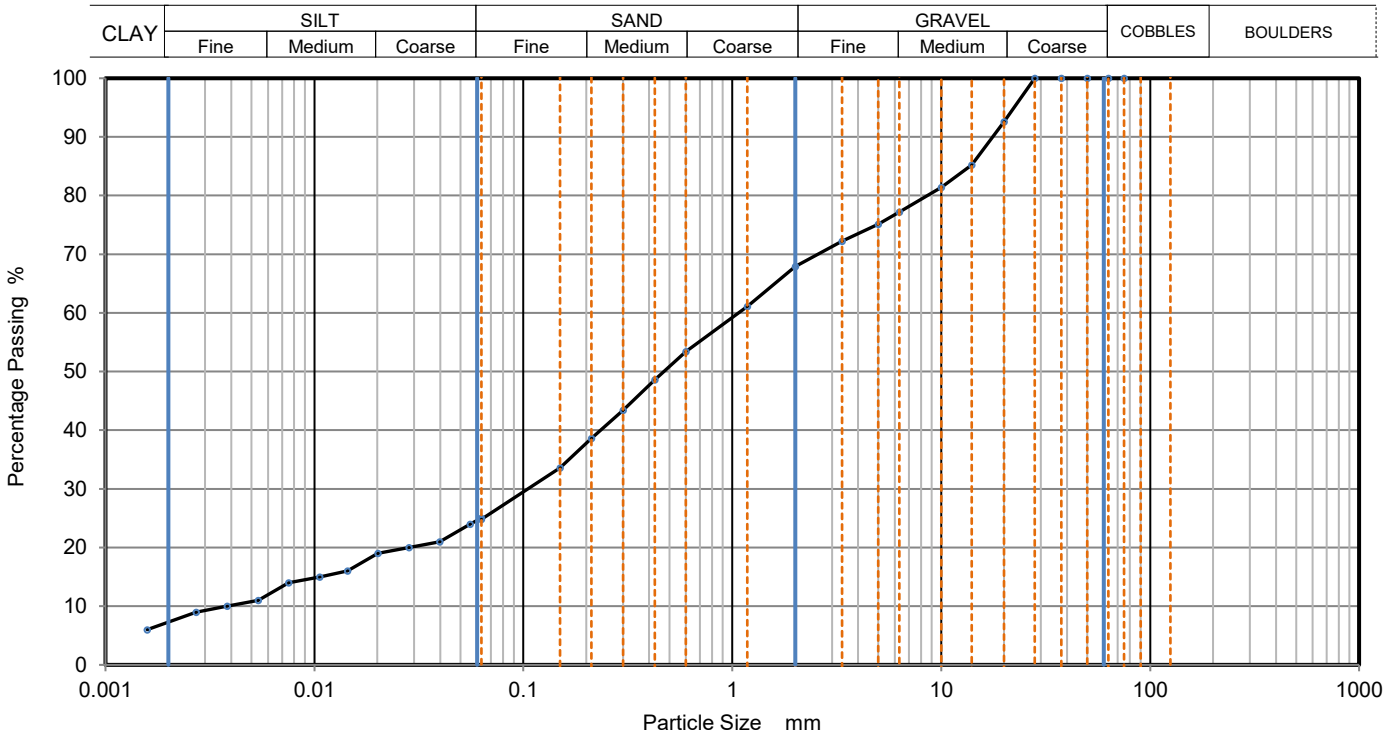
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M37
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Grey very silty very gravelly SAND.			Depth, m	0.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071528



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	25
		0.0556	24
75	100	0.0398	21
63	100	0.0283	20
50	100	0.0201	19
37.5	100	0.0144	16
28	100	0.0106	15
20	93	0.0075	14
14	85	0.0054	11
10	81	0.0038	10
6.3	77	0.0027	9
5	75	0.0016	6
3.35	72		
2	68		
1.18	61		
0.6	53	Particle density (assumed)	
0.425	49	2.65	Mg/m3
0.3	43		
0.212	39		
0.15	34		
0.063	25		

Dry Mass of sample, g	762

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	43
Silt	18
Clay	7

Grading Analysis		
D100	mm	
D60	mm	1.07
D30	mm	0.105
D10	mm	0.00391
Uniformity Coefficient		280
Curvature Coefficient		2.6

Remarks

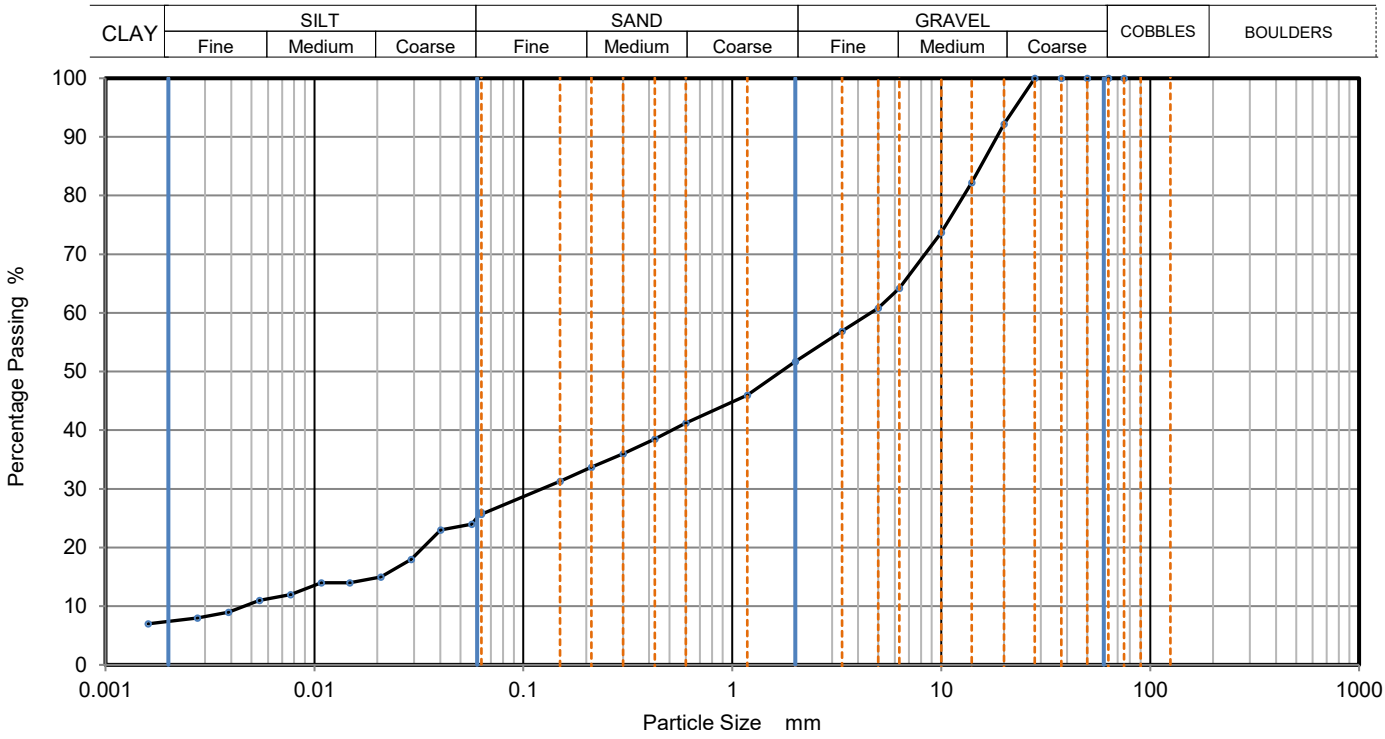
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M38
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Greyish-brown very silty very sandy medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202507140



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	26
		0.0565	24
75	100	0.0402	23
63	100	0.0291	18
50	100	0.0208	15
37.5	100	0.0148	14
28	100	0.0108	14
20	92	0.0077	12
14	82	0.0055	11
10	74	0.0039	9
6.3	64	0.0028	8
5	61	0.0016	7
3.35	57		
2	52		
1.18	46		
0.6	41	Particle density (assumed)	
0.425	39	2.65 Mg/m3	
0.3	36		
0.212	34		
0.15	31		
0.063	26		

Dry Mass of sample, g	733

Sample Proportions	% dry mass
Very coarse	0
Gravel	48
Sand	26
Silt	18
Clay	7

Grading Analysis		
D100	mm	
D60	mm	4.62
D30	mm	0.123
D10	mm	0.00444
Uniformity Coefficient		1000
Curvature Coefficient		0.74

Remarks

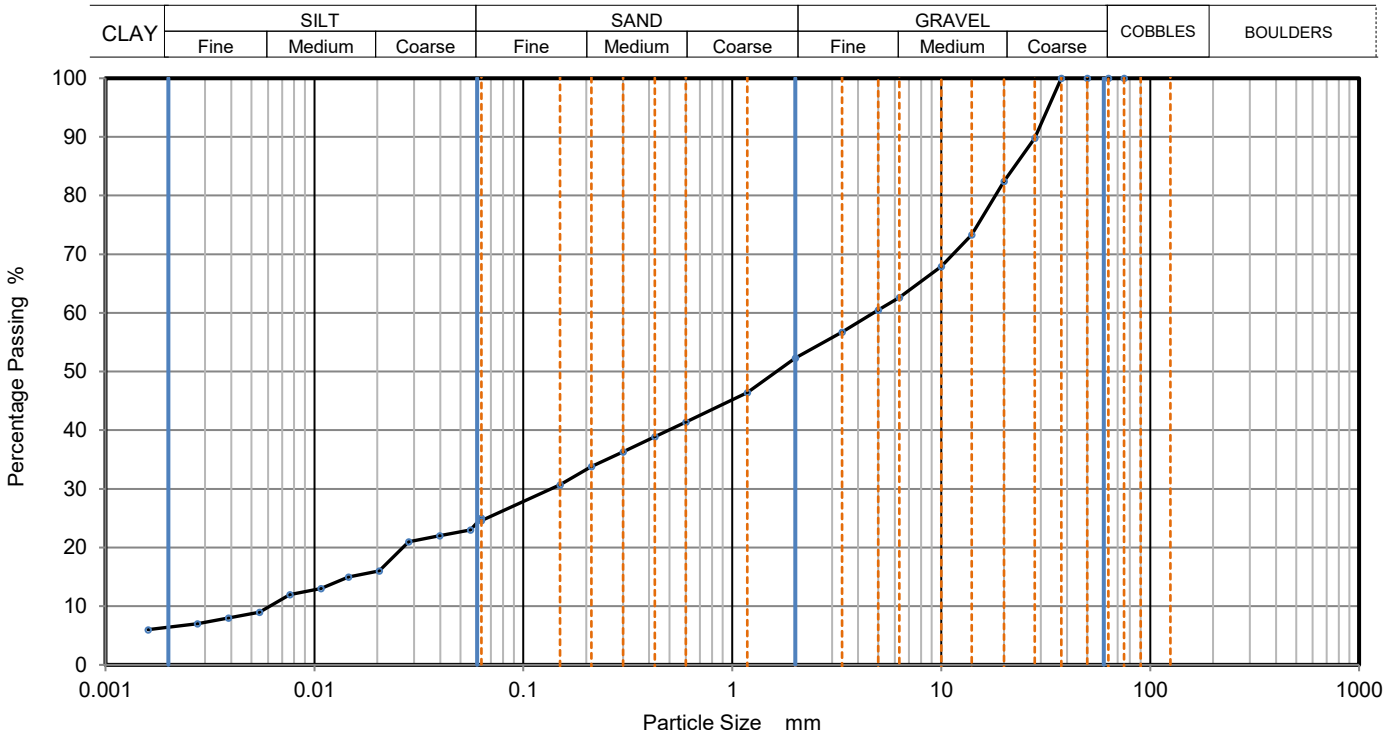
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M38
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Dark grey very silty very sandy medium and coarse GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202507142



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	25
		0.0558	23
75	100	0.0397	22
63	100	0.0283	21
50	100	0.0205	16
37.5	100	0.0145	15
28	90	0.0107	13
20	82	0.0076	12
14	73	0.0055	9
10	68	0.0039	8
6.3	63	0.0028	7
5	61	0.0016	6
3.35	57		
2	52		
1.18	46		
0.6	41	Particle density (assumed)	
0.425	39	2.65 Mg/m3	
0.3	36		
0.212	34		
0.15	31		
0.063	25		

Dry Mass of sample, g	999

Sample Proportions	% dry mass
Very coarse	0
Gravel	48
Sand	28
Silt	18
Clay	6

Grading Analysis		
D100	mm	
D60	mm	4.75
D30	mm	0.137
D10	mm	0.00597
Uniformity Coefficient		800
Curvature Coefficient		0.66

Remarks

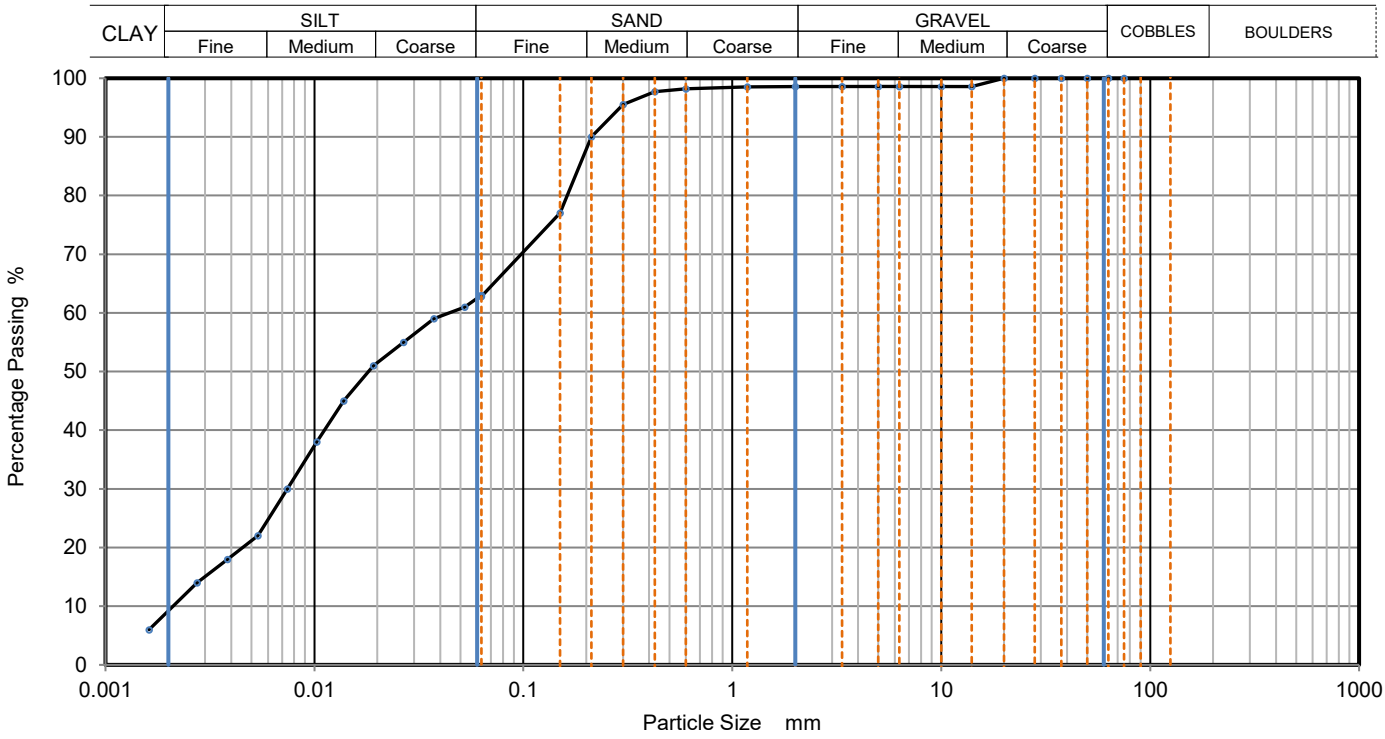
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M39
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Cream sandy SILT. Sand is fine.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202507147



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	63
		0.0523	61
75	100	0.0373	59
63	100	0.0267	55
50	100	0.0191	51
37.5	100	0.0138	45
28	100	0.0103	38
20	100	0.0074	30
14	99	0.0054	22
10	99	0.0038	18
6.3	99	0.0027	14
5	99	0.0016	6
3.35	99		
2	99		
1.18	99		
0.6	98	Particle density (assumed)	
0.425	98	2.65 Mg/m3	
0.3	96		
0.212	90		
0.15	77		
0.063	63		

Dry Mass of sample, g	656

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	36
Silt	54
Clay	9

Grading Analysis		
D100	mm	
D60	mm	0.046
D30	mm	0.00731
D10	mm	0.00209
Uniformity Coefficient		22
Curvature Coefficient		0.56

Remarks

Preparation and testing in accordance with BS1377 unless noted below

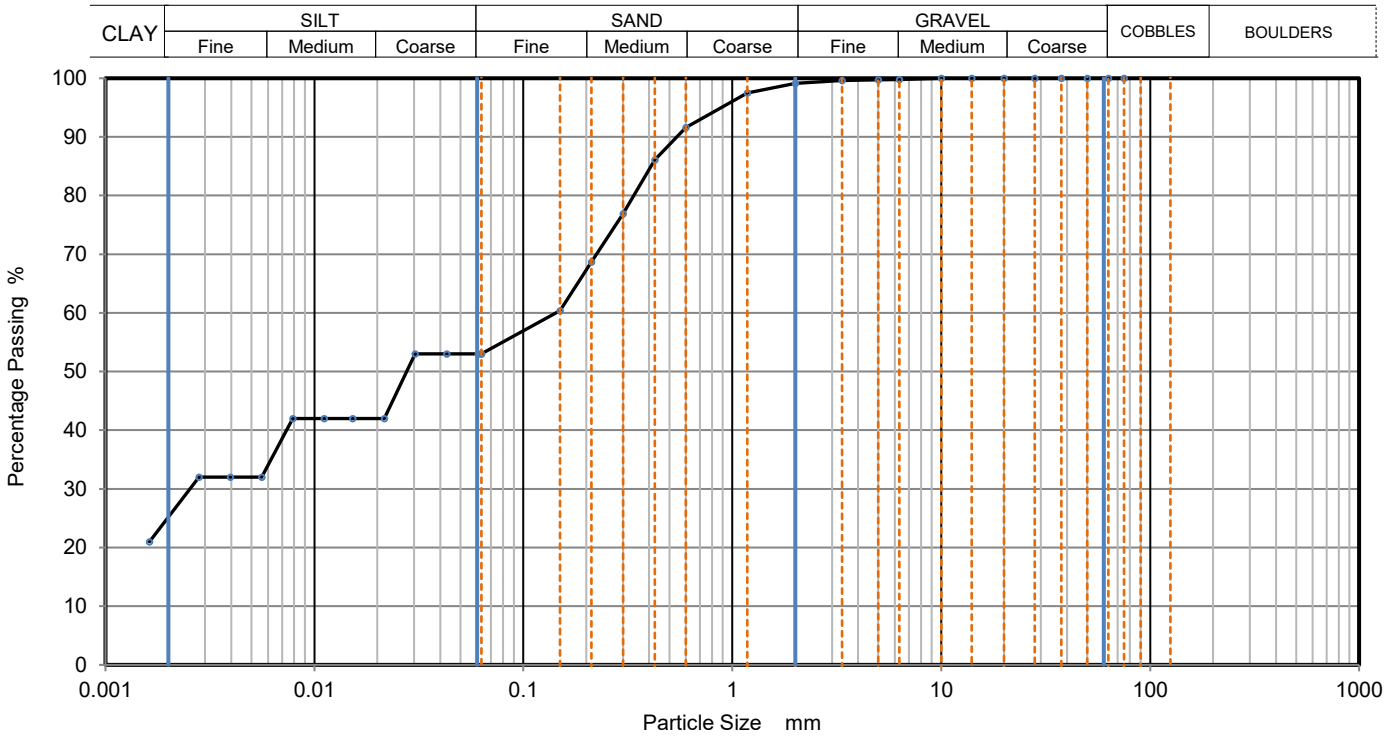
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M39
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Light brown sandy SILT. Sand is medium and fine.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202507149



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	53
		0.0607	53
75	100	0.0429	53
63	100	0.0304	53
50	100	0.0216	42
37.5	100	0.0153	42
28	100	0.0111	42
20	100	0.0079	42
14	100	0.0056	32
10	100	0.0040	32
6.3	100	0.0028	32
5	100	0.0016	21
3.35	100		
2	99		
1.18	98		
0.6	92	Particle density (assumed)	
0.425	86	2.65 Mg/m3	
0.3	77		
0.212	69		
0.15	60		
0.063	53		

Dry Mass of sample, g: 897

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	46
Silt	28
Clay	25

Grading Analysis		
D100	mm	
D60	mm	0.143
D30	mm	0.00255
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

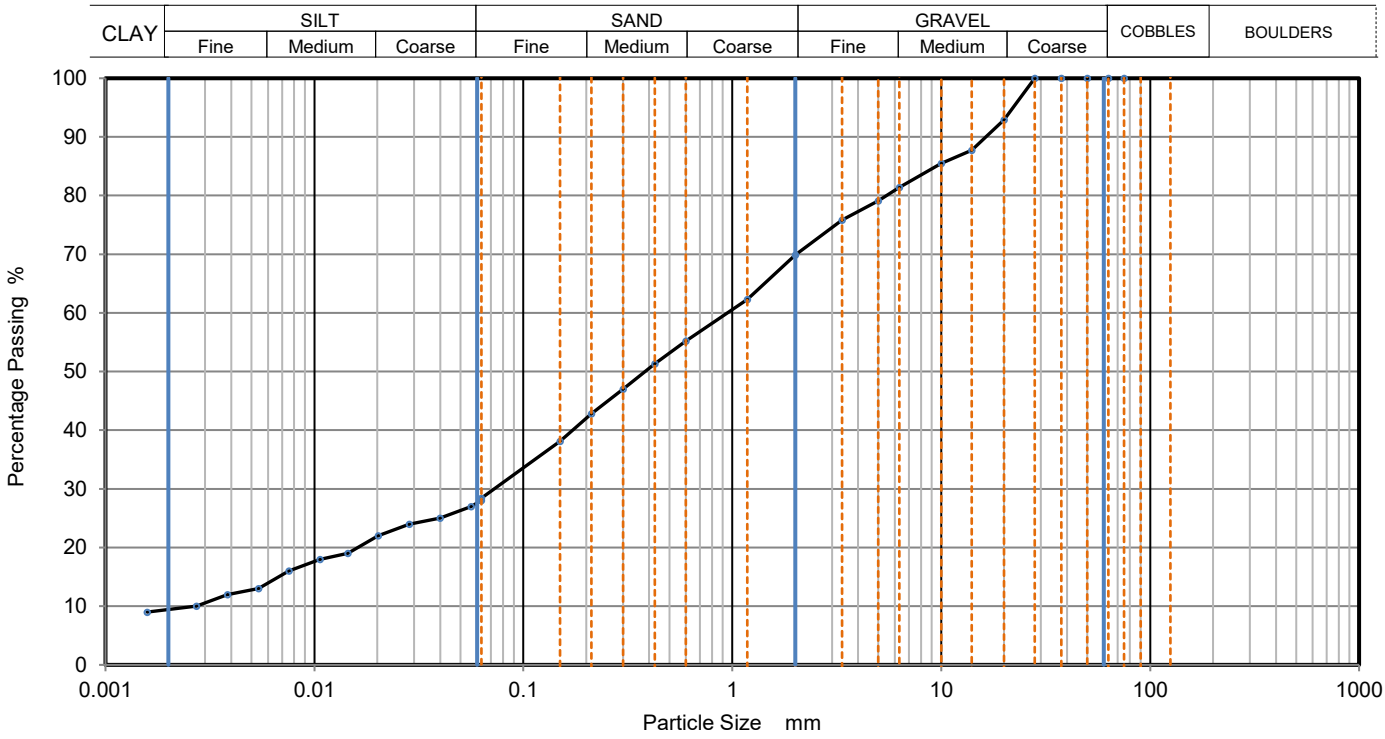
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M40
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown very silty very gravelly SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071439



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	28
		0.0562	27
75	100	0.0400	25
63	100	0.0284	24
50	100	0.0202	22
37.5	100	0.0145	19
28	100	0.0106	18
20	93	0.0075	16
14	88	0.0054	13
10	86	0.0038	12
6.3	81	0.0027	10
5	79	0.0016	9
3.35	76		
2	70		
1.18	62		
0.6	55	Particle density (assumed)	
0.425	51	2.65 Mg/m3	
0.3	47		
0.212	43		
0.15	38		
0.063	28		

Dry Mass of sample, g	805

Sample Proportions	% dry mass
Very coarse	0
Gravel	30
Sand	42
Silt	19
Clay	10

Grading Analysis		
D100	mm	
D60	mm	0.947
D30	mm	0.0729
D10	mm	0.0023
Uniformity Coefficient		410
Curvature Coefficient		2.4

Remarks

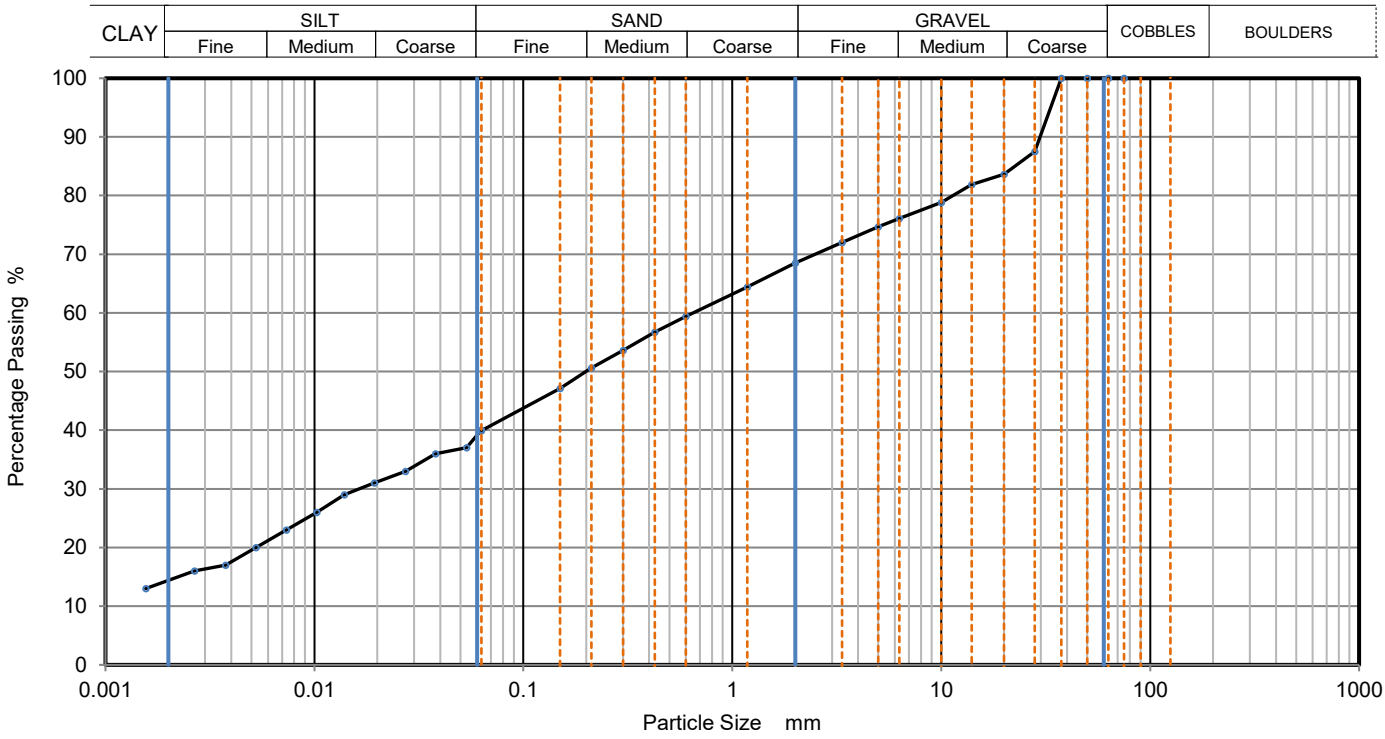
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M40
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Grey slightly sandy slightly gravelly SILT.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071441



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	40
		0.0534	37
75	100	0.0380	36
63	100	0.0272	33
50	100	0.0194	31
37.5	100	0.0139	29
28	88	0.0103	26
20	84	0.0073	23
14	82	0.0052	20
10	79	0.0038	17
6.3	76	0.0027	16
5	75	0.0016	13
3.35	72		
2	69		
1.18	64		
0.6	59	Particle density (assumed)	
0.425	57	2.65	Mg/m3
0.3	54		
0.212	51		
0.15	47		
0.063	40		

Dry Mass of sample, g: 803

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	29
Silt	26
Clay	14

Grading Analysis		
D100	mm	
D60	mm	0.649
D30	mm	0.0165
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

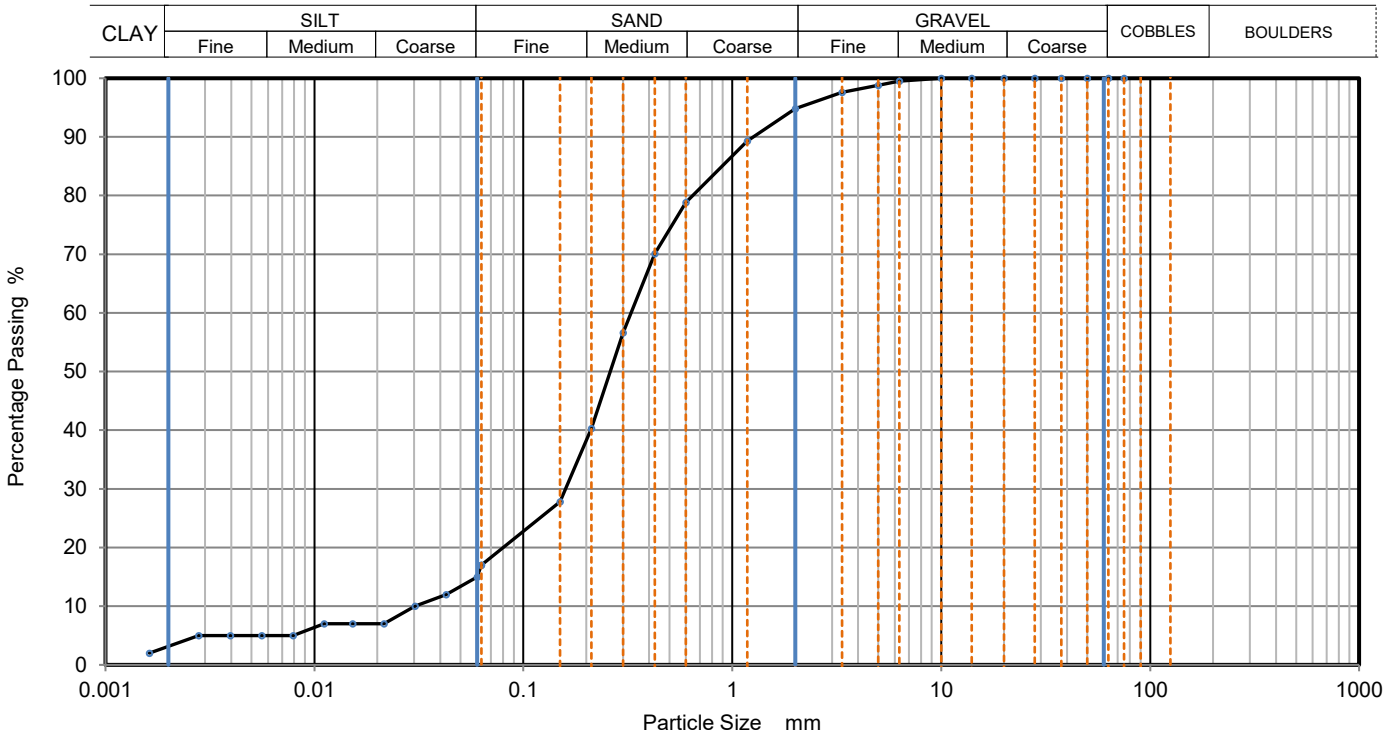
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M41
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Dark grey gravelly silty medium SAND.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071413



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	17
		0.0600	15
75	100	0.0427	12
63	100	0.0303	10
50	100	0.0216	7
37.5	100	0.0152	7
28	100	0.0111	7
20	100	0.0079	5
14	100	0.0056	5
10	100	0.0040	5
6.3	100	0.0028	5
5	99	0.0016	2
3.35	98		
2	95		
1.18	89		
0.6	79	Particle density (assumed)	
0.425	70	2.65 Mg/m3	
0.3	57		
0.212	40		
0.15	28		
0.063	17		

Dry Mass of sample, g	736

Sample Proportions	% dry mass
Very coarse	0
Gravel	5
Sand	78
Silt	14
Clay	3

Grading Analysis		
D100	mm	
D60	mm	0.327
D30	mm	0.159
D10	mm	0.0316
Uniformity Coefficient		10
Curvature Coefficient		2.5

Remarks

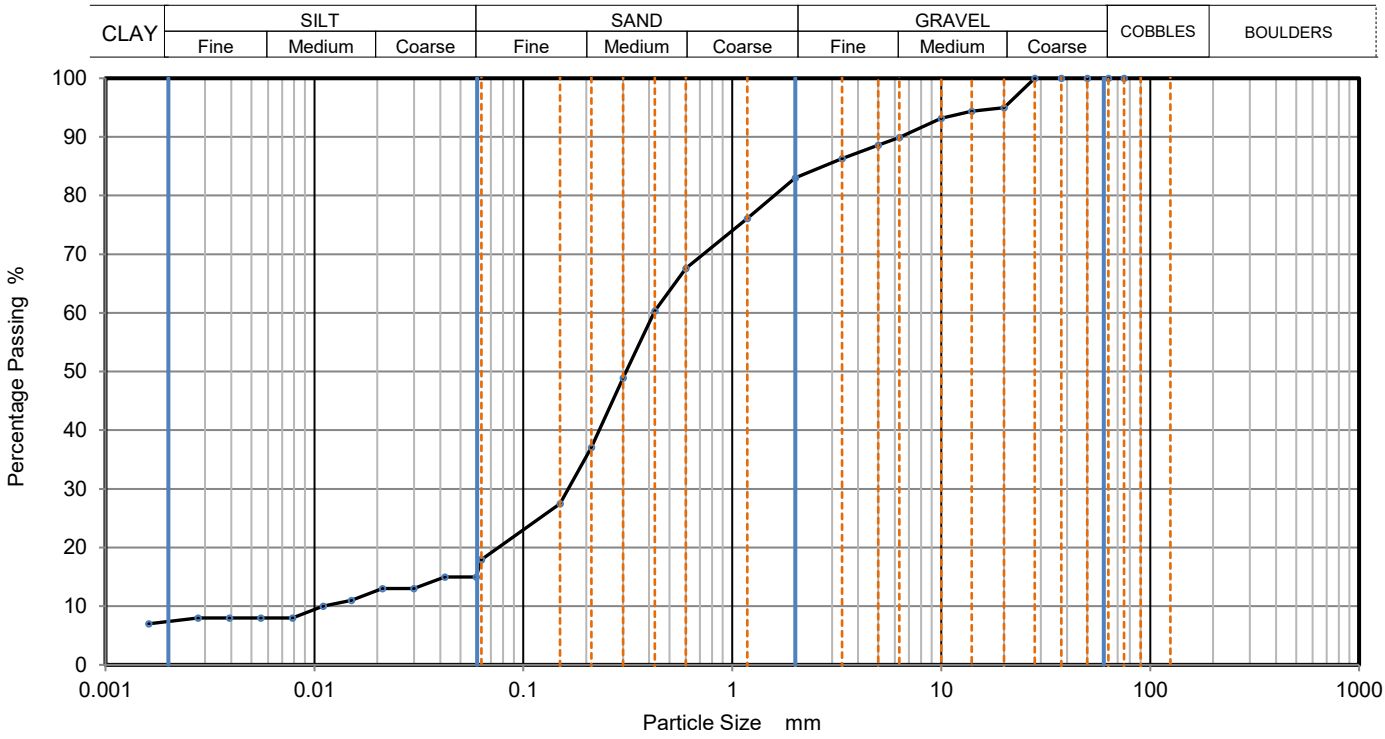
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M42
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown gravelly silty medium SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071415



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	18
		0.0595	15
75	100	0.0420	15
63	100	0.0299	13
50	100	0.0211	13
37.5	100	0.0150	11
28	100	0.0110	10
20	95	0.0078	8
14	94	0.0055	8
10	93	0.0039	8
6.3	90	0.0028	8
5	89	0.0016	7
3.35	86		
2	83		
1.18	76		
0.6	68	Particle density (assumed)	
0.425	60	2.65	Mg/m3
0.3	49		
0.212	37		
0.15	28		
0.063	18		

Dry Mass of sample, g	676

Sample Proportions	% dry mass
Very coarse	0
Gravel	17
Sand	65
Silt	11
Clay	7

Grading Analysis		
D100	mm	
D60	mm	0.422
D30	mm	0.164
D10	mm	0.0115
Uniformity Coefficient		37
Curvature Coefficient		5.6

Remarks

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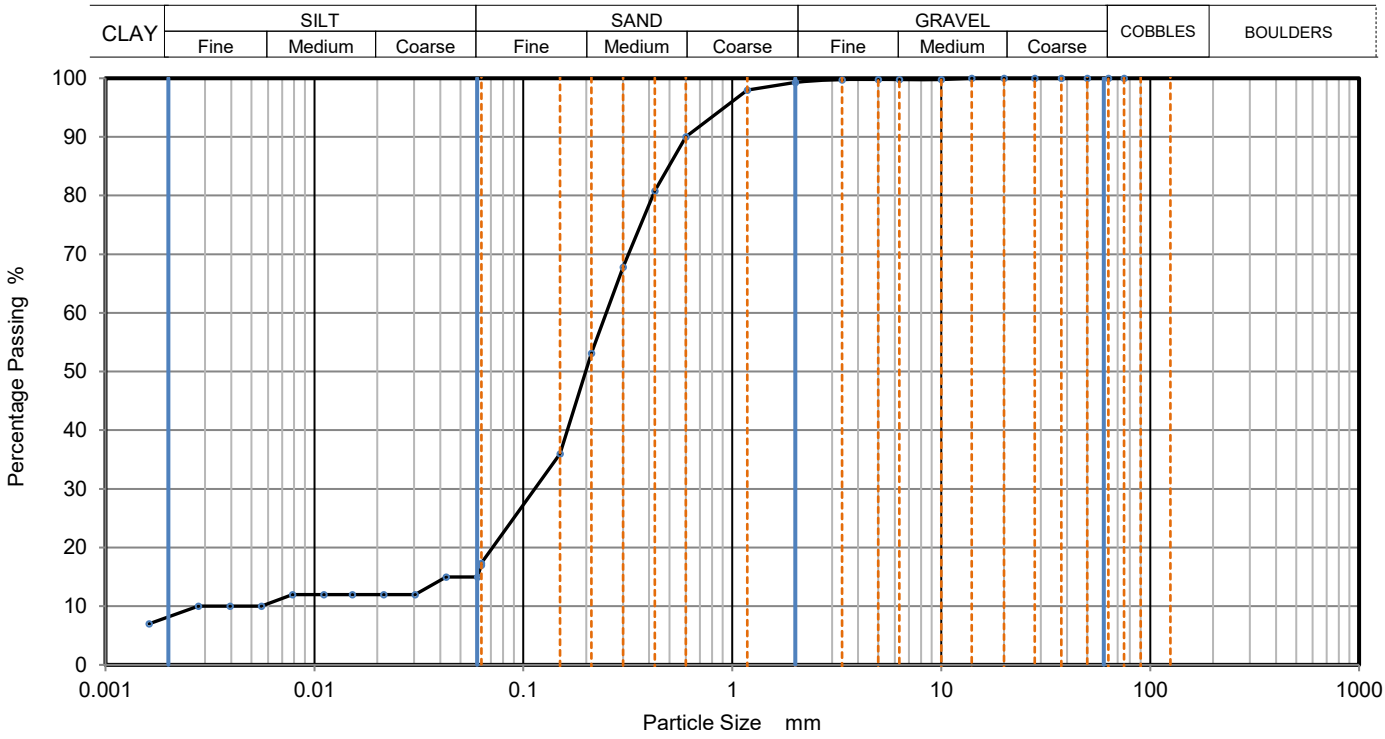
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M42
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown silty fine and medium SAND.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071417



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	17
		0.0604	15
75	100	0.0427	15
63	100	0.0304	12
50	100	0.0215	12
37.5	100	0.0152	12
28	100	0.0111	12
20	100	0.0078	12
14	100	0.0056	10
10	100	0.0039	10
6.3	100	0.0028	10
5	100	0.0016	7
3.35	100		
2	99		
1.18	98		
0.6	90	Particle density (assumed)	
0.425	81	2.65 Mg/m3	
0.3	68		
0.212	53		
0.15	36		
0.063	17		

Dry Mass of sample, g	673

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	82
Silt	9
Clay	8

Grading Analysis		
D100	mm	
D60	mm	0.249
D30	mm	0.114
D10	mm	0.00566
Uniformity Coefficient		44
Curvature Coefficient		9.1

Remarks

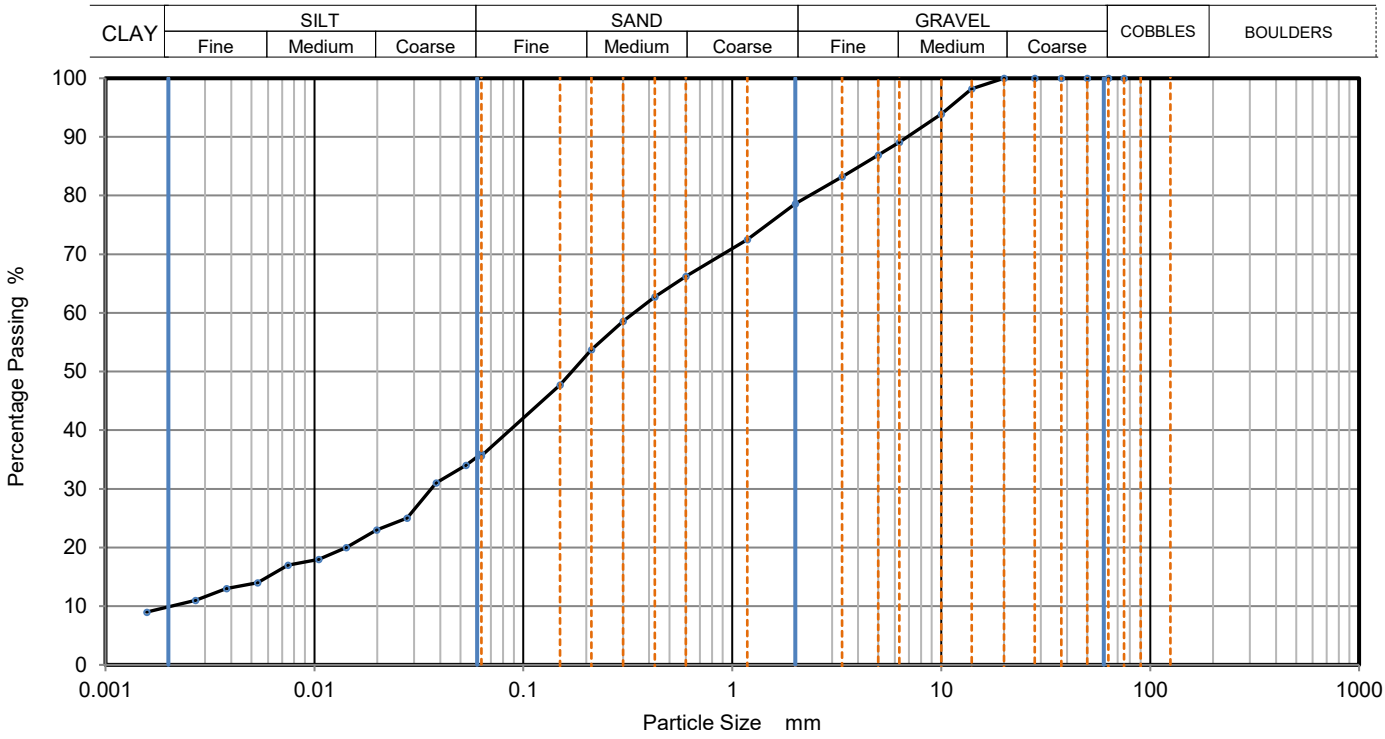
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M44
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown slightly gravelly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071419



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	36
		0.0531	34
75	100	0.0383	31
63	100	0.0278	25
50	100	0.0199	23
37.5	100	0.0142	20
28	100	0.0105	18
20	100	0.0075	17
14	98	0.0053	14
10	94	0.0038	13
6.3	89	0.0027	11
5	87	0.0016	9
3.35	83		
2	79		
1.18	73		
0.6	66	Particle density (assumed)	
0.425	63	2.65	Mg/m3
0.3	59		
0.212	54		
0.15	48		
0.063	36		

Dry Mass of sample, g	766

Sample Proportions	% dry mass
Very coarse	0
Gravel	21
Sand	43
Silt	26
Clay	10

Grading Analysis		
D100	mm	
D60	mm	0.338
D30	mm	0.0371
D10	mm	0.00199
Uniformity Coefficient		170
Curvature Coefficient		2

Remarks

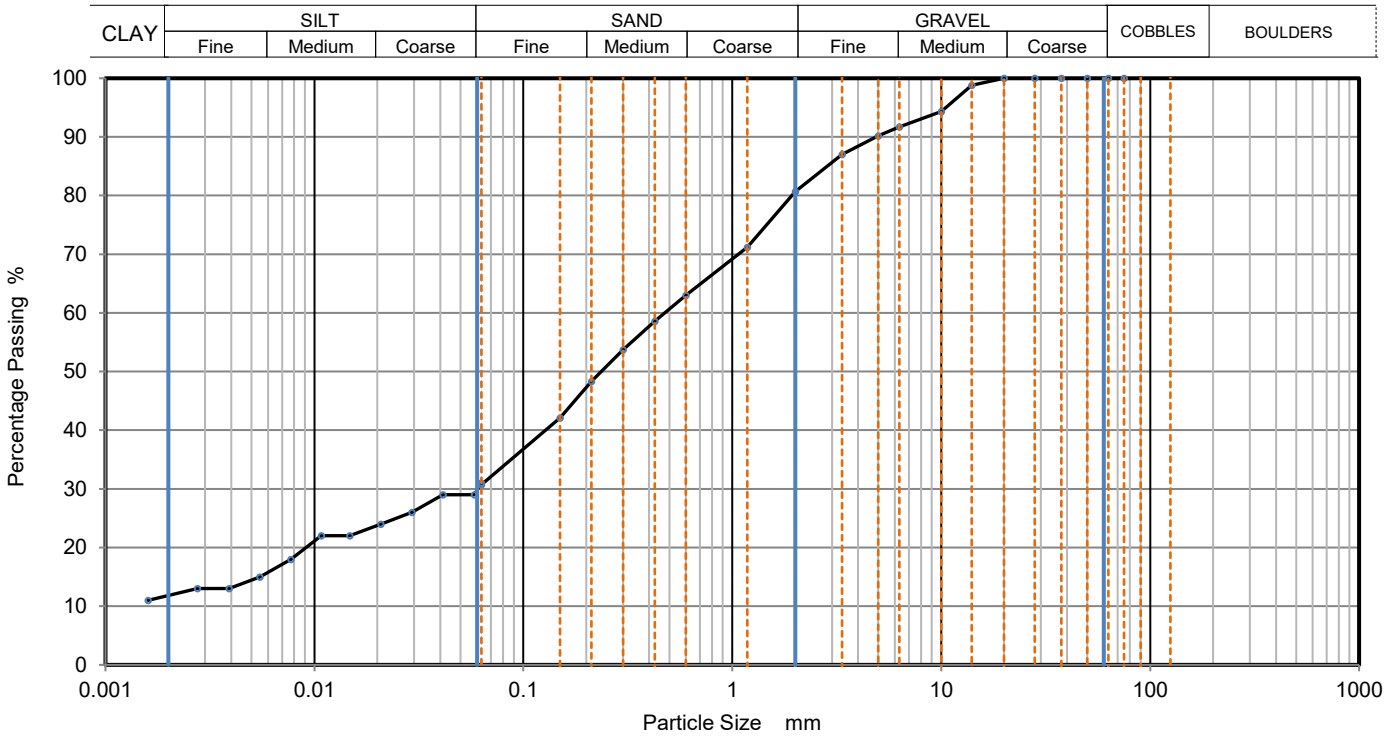
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M44
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown gravelly very silty SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071421



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	31
		0.0582	29
75	100	0.0411	29
63	100	0.0292	26
50	100	0.0208	24
37.5	100	0.0148	22
28	100	0.0108	22
20	100	0.0077	18
14	99	0.0055	15
10	94	0.0039	13
6.3	92	0.0028	13
5	90	0.0016	11
3.35	87		
2	81		
1.18	71		
0.6	63	Particle density (assumed)	
0.425	59	2.65	Mg/m3
0.3	54		
0.212	48		
0.15	42		
0.063	31		

Dry Mass of sample, g	786

Sample Proportions	% dry mass
Very coarse	0
Gravel	19
Sand	50
Silt	19
Clay	12

Grading Analysis		
D100	mm	
D60	mm	0.474
D30	mm	0.0614
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

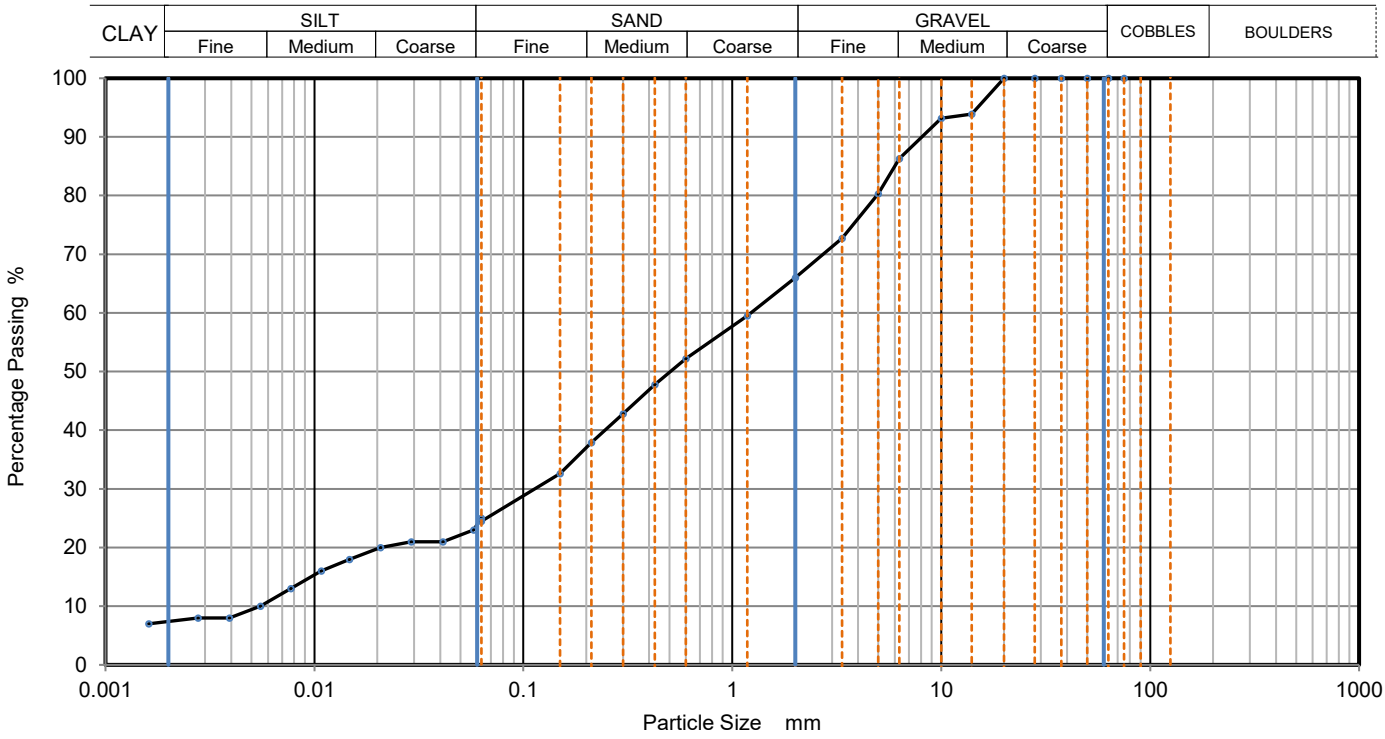
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M45
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown very silty very gravelly SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071423



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	25
		0.0578	23
75	100	0.0411	21
63	100	0.0291	21
50	100	0.0207	20
37.5	100	0.0147	18
28	100	0.0108	16
20	100	0.0077	13
14	94	0.0055	10
10	93	0.0039	8
6.3	86	0.0028	8
5	80	0.0016	7
3.35	73		
2	66		
1.18	60		
0.6	52	Particle density (assumed)	
0.425	48	2.65	Mg/m3
0.3	43		
0.212	38		
0.15	33		
0.063	25		

Dry Mass of sample, g	667

Sample Proportions	% dry mass
Very coarse	0
Gravel	34
Sand	42
Silt	17
Clay	7

Grading Analysis		
D100	mm	
D60	mm	1.23
D30	mm	0.113
D10	mm	0.00563
Uniformity Coefficient		220
Curvature Coefficient		1.9

Remarks

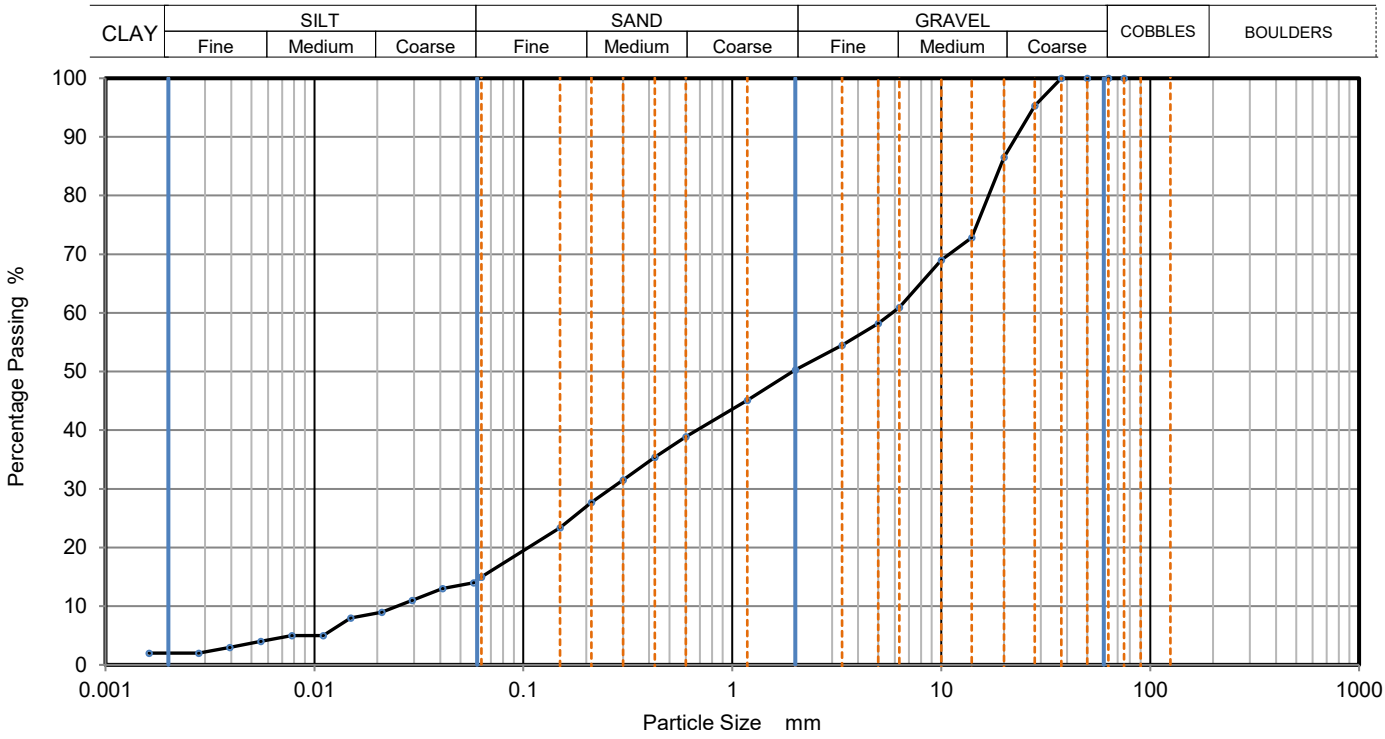
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M45
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Light brown silty very sandy medium GRAVEL.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071427



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	15
		0.0578	14
75	100	0.0411	13
63	100	0.0294	11
50	100	0.0210	9
37.5	100	0.0149	8
28	95	0.0110	5
20	87	0.0078	5
14	73	0.0055	4
10	69	0.0039	3
6.3	61	0.0028	2
5	58	0.0016	2
3.35	55		
2	50		
1.18	45		
0.6	39	Particle density (assumed)	
0.425	35	2.65 Mg/m3	
0.3	32		
0.212	28		
0.15	23		
0.063	15		

Dry Mass of sample, g	797

Sample Proportions	% dry mass
Very coarse	0
Gravel	50
Sand	35
Silt	13
Clay	2

Grading Analysis		
D100	mm	
D60	mm	5.82
D30	mm	0.262
D10	mm	0.0263
Uniformity Coefficient		220
Curvature Coefficient		0.45

Remarks

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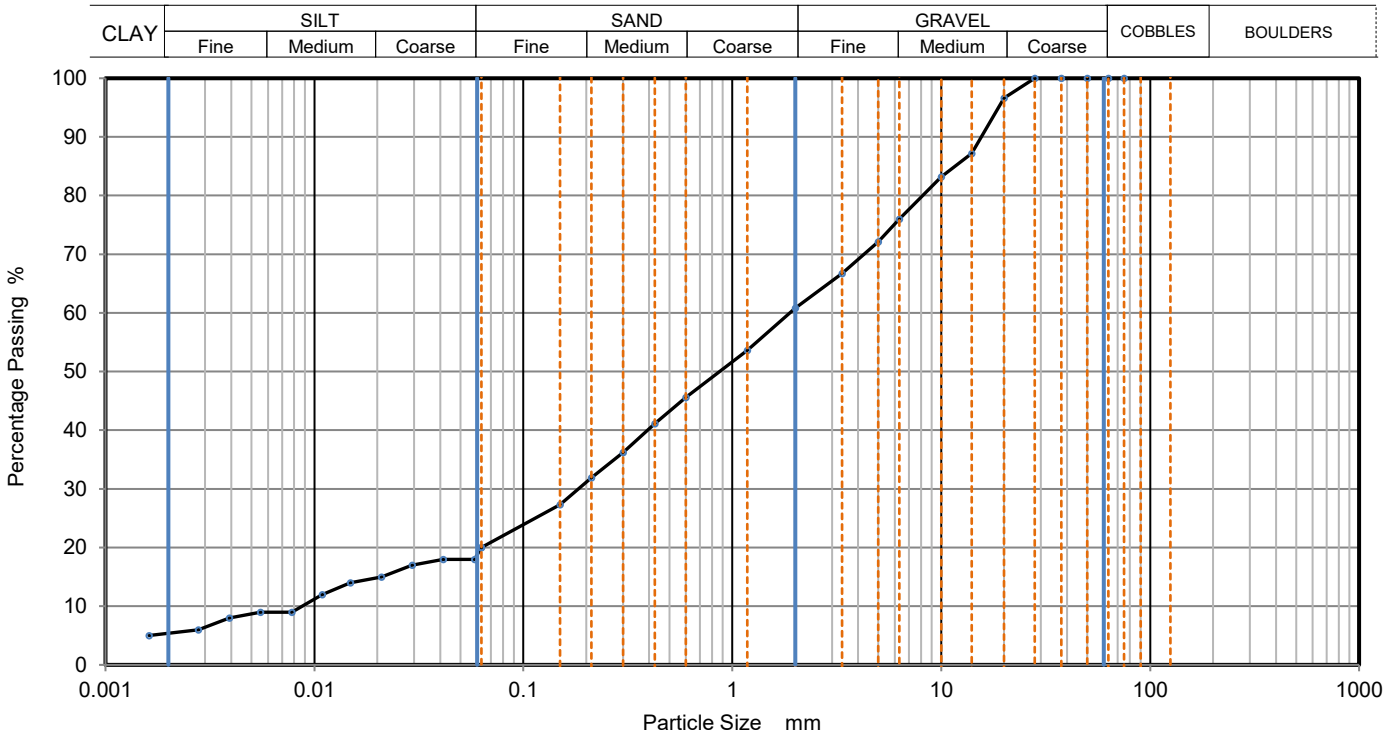
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M46
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown very silty SAND and GRAVEL. Gravel is medium.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071429



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	20
		0.0585	18
75	100	0.0414	18
63	100	0.0294	17
50	100	0.0209	15
37.5	100	0.0149	14
28	100	0.0109	12
20	97	0.0078	9
14	87	0.0055	9
10	83	0.0039	8
6.3	76	0.0028	6
5	72	0.0016	5
3.35	67		
2	61		
1.18	54		
0.6	46	Particle density (assumed)	
0.425	41	2.65 Mg/m3	
0.3	36		
0.212	32		
0.15	27		
0.063	20		

Dry Mass of sample, g: 684

Sample Proportions	% dry mass
Very coarse	0
Gravel	39
Sand	41
Silt	15
Clay	5

Grading Analysis		
D100	mm	
D60	mm	1.89
D30	mm	0.184
D10	mm	0.00848
Uniformity Coefficient		220
Curvature Coefficient		2.1

Remarks

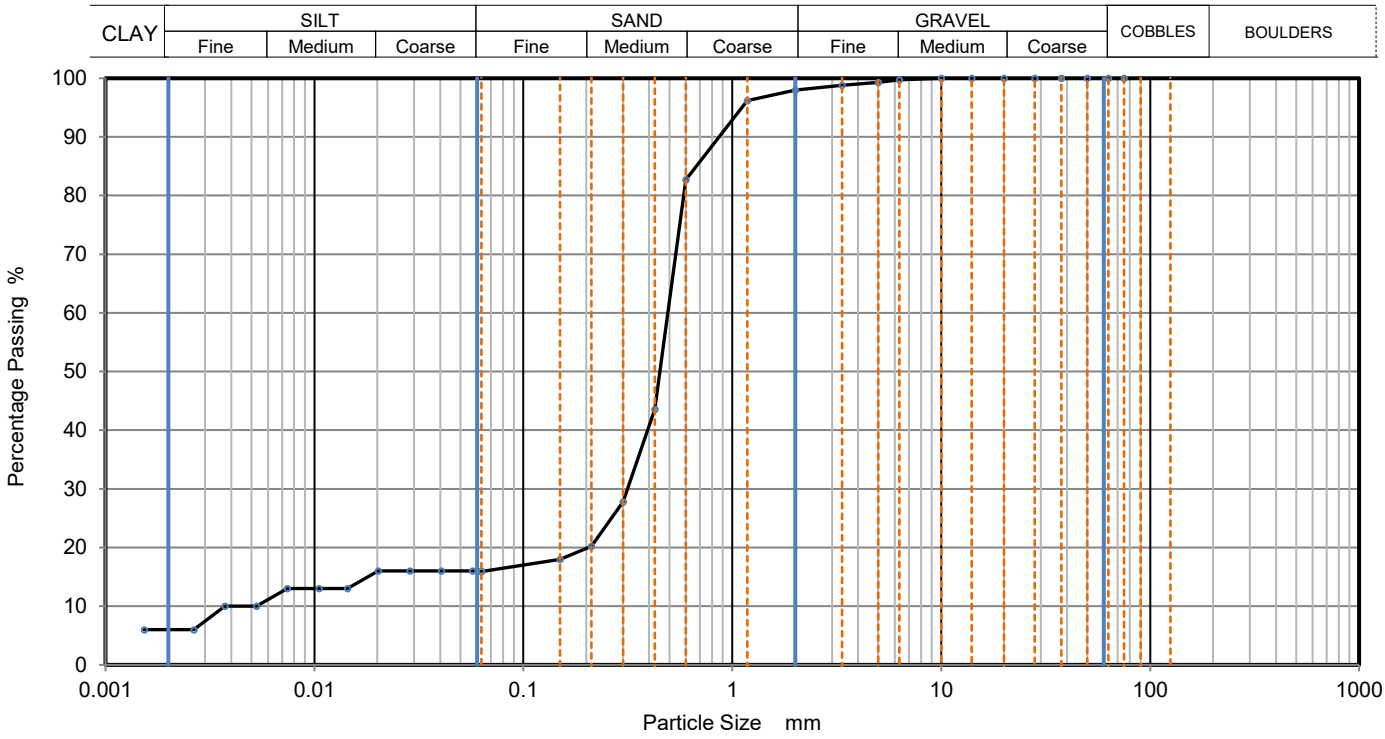
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M46
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Greyish-brown slightly gravelly silty medium SAND.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071433



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	16
		0.0572	16
75	100	0.0405	16
63	100	0.0286	16
50	100	0.0202	16
37.5	100	0.0144	13
28	100	0.0105	13
20	100	0.0074	13
14	100	0.0053	10
10	100	0.0037	10
6.3	100	0.0027	6
5	99	0.0015	6
3.35	99		
2	98		
1.18	96		
0.6	83	Particle density (assumed)	
0.425	44	2.65	Mg/m3
0.3	28		
0.212	20		
0.15	18		
0.063	16		

Dry Mass of sample, g	730

Sample Proportions	% dry mass
Very coarse	0
Gravel	2
Sand	82
Silt	10
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.491
D30	mm	0.315
D10	mm	0.00555
Uniformity Coefficient		89
Curvature Coefficient		36

Remarks

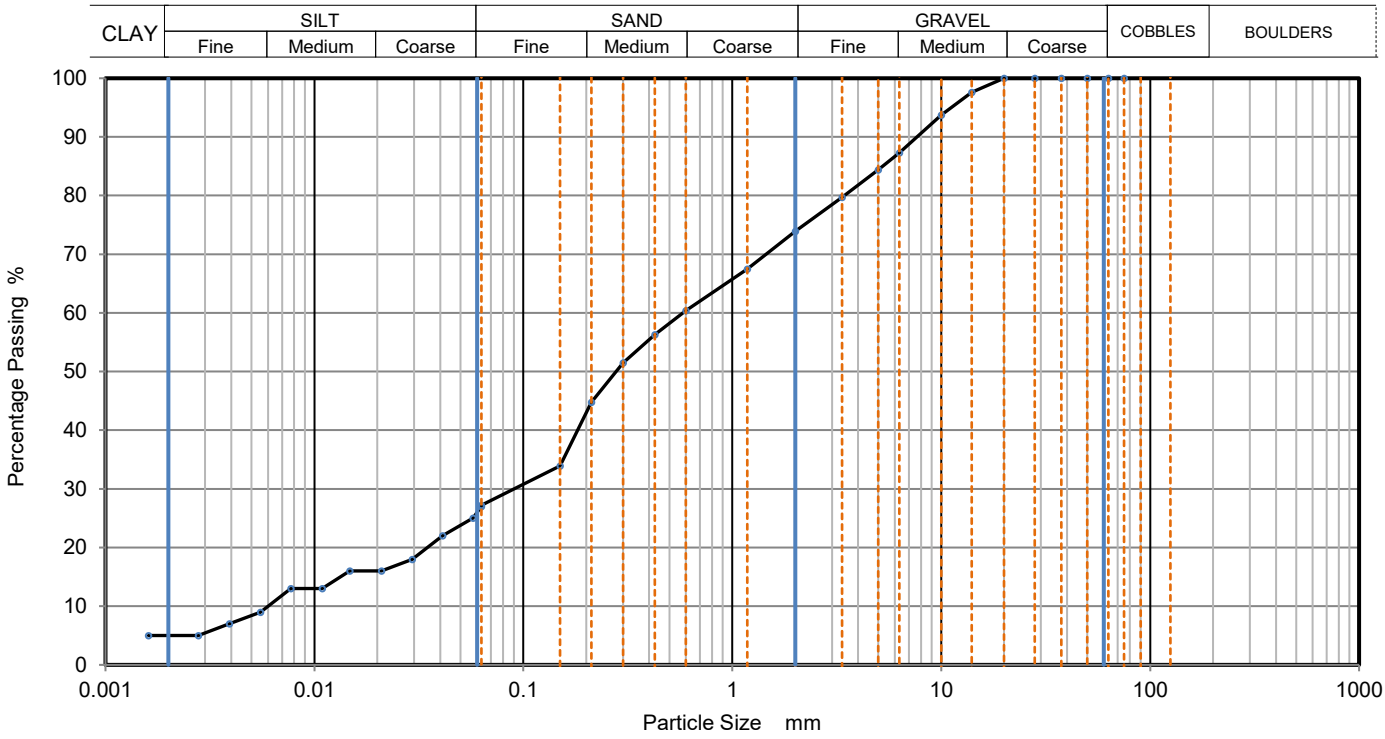
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M47
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown very gravelly very silty SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071435



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	27
		0.0575	25
75	100	0.0411	22
63	100	0.0294	18
50	100	0.0209	16
37.5	100	0.0148	16
28	100	0.0109	13
20	100	0.0077	13
14	98	0.0055	9
10	94	0.0039	7
6.3	87	0.0028	5
5	84	0.0016	5
3.35	80		
2	74		
1.18	68		
0.6	60	Particle density (assumed)	
0.425	56	2.65 Mg/m3	
0.3	52		
0.212	45		
0.15	34		
0.063	27		

Dry Mass of sample, g	589

Sample Proportions	% dry mass
Very coarse	0
Gravel	26
Sand	47
Silt	22
Clay	5

Grading Analysis		
D100	mm	
D60	mm	0.58
D30	mm	0.0906
D10	mm	0.00601
Uniformity Coefficient		97
Curvature Coefficient		2.4

Remarks

Preparation and testing in accordance with BS1377 unless noted below

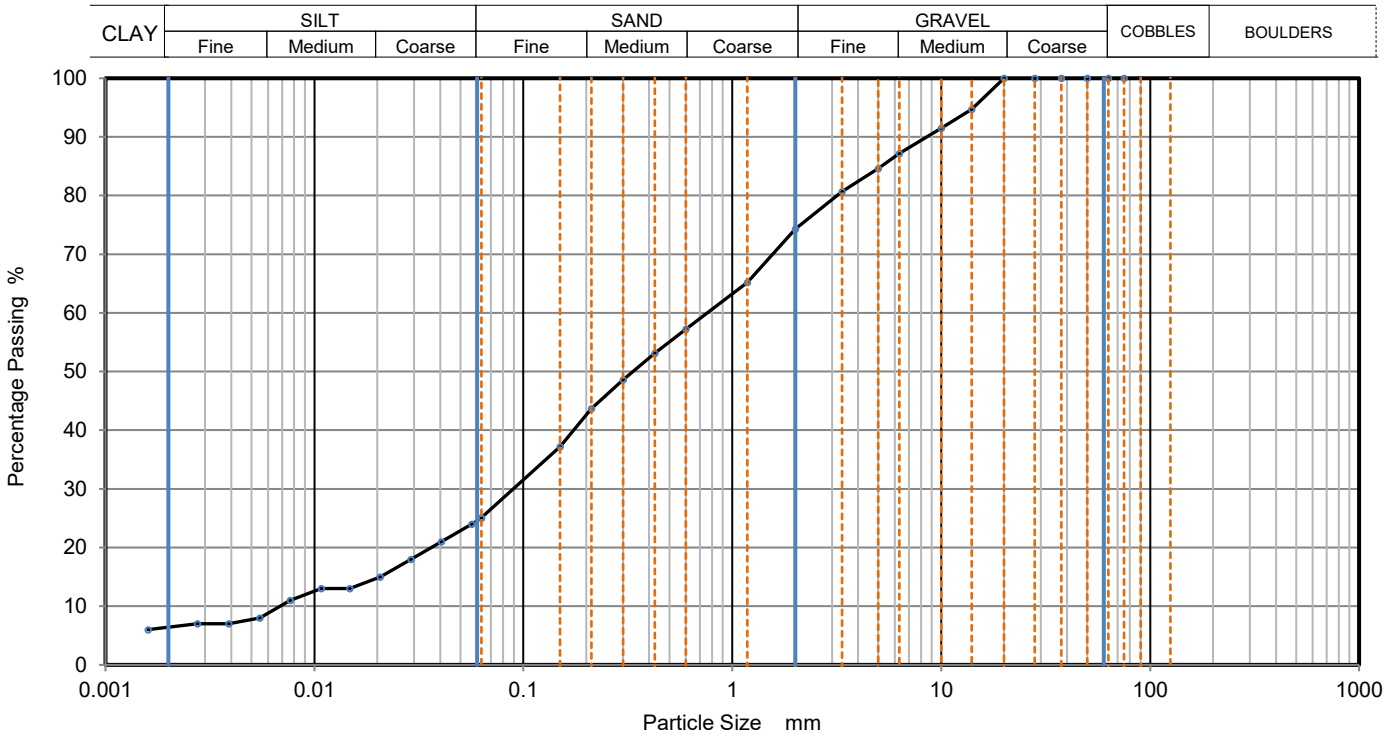
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M47
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Grey very silty very gravelly SAND.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071437



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	25
		0.0565	24
75	100	0.0404	21
63	100	0.0289	18
50	100	0.0207	15
37.5	100	0.0148	13
28	100	0.0108	13
20	100	0.0077	11
14	95	0.0055	8
10	92	0.0039	7
6.3	87	0.0028	7
5	85	0.0016	6
3.35	81		
2	74		
1.18	65		
0.6	57	Particle density (assumed)	
0.425	53	2.65	Mg/m3
0.3	49		
0.212	44		
0.15	37		
0.063	25		

Dry Mass of sample, g	782

Sample Proportions	% dry mass
Very coarse	0
Gravel	26
Sand	49
Silt	19
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.759
D30	mm	0.0893
D10	mm	0.00667
Uniformity Coefficient		110
Curvature Coefficient		1.6

Remarks

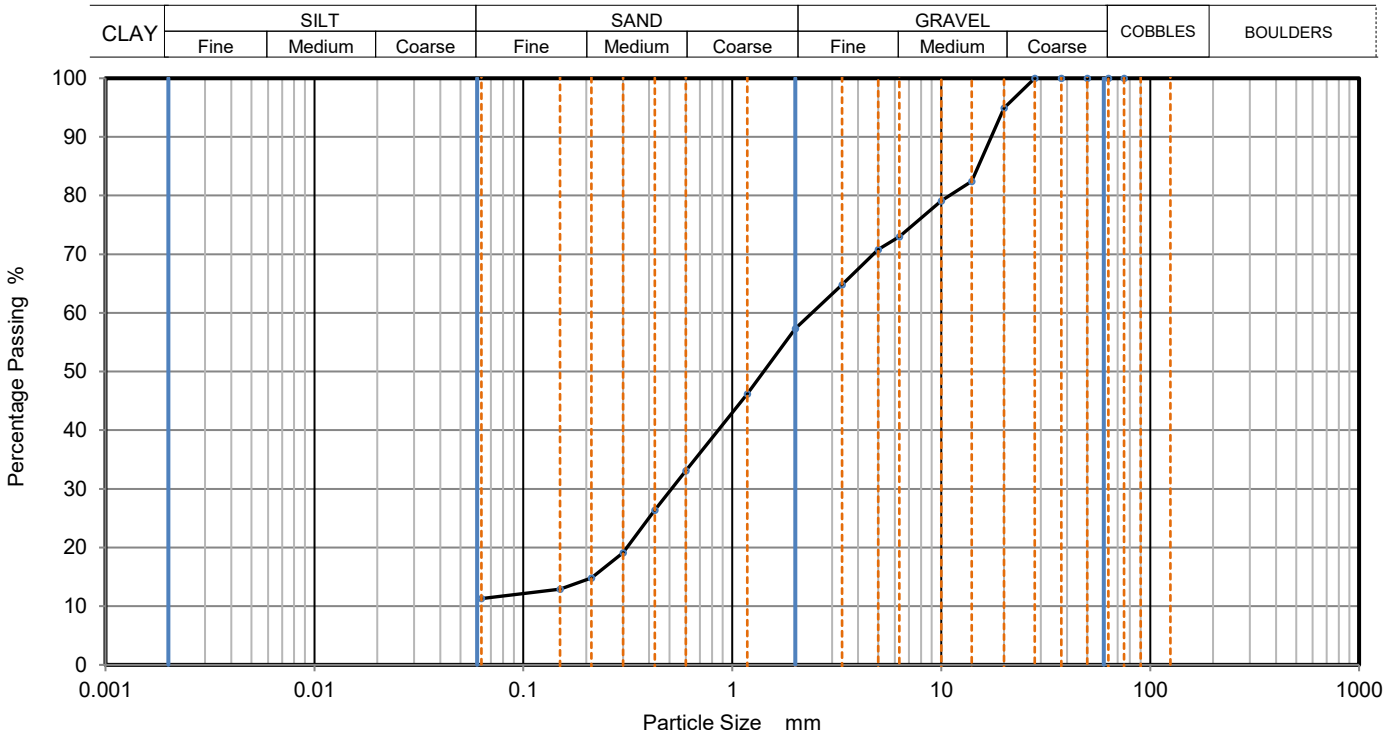
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M49
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown silty coarse SAND and medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042576



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	95		
14	82		
10	79		
6.3	73		
5	71		
3.35	65		
2	57		
1.18	46		
0.6	33		
0.425	26		
0.3	19		
0.212	15		
0.15	13		
0.063	11		

Dry Mass of sample, g	761

Sample Proportions	% dry mass
Very coarse	0
Gravel	43
Sand	46
Fines <0.063mm	11

Grading Analysis		
D100	mm	
D60	mm	2.41
D30	mm	0.511
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

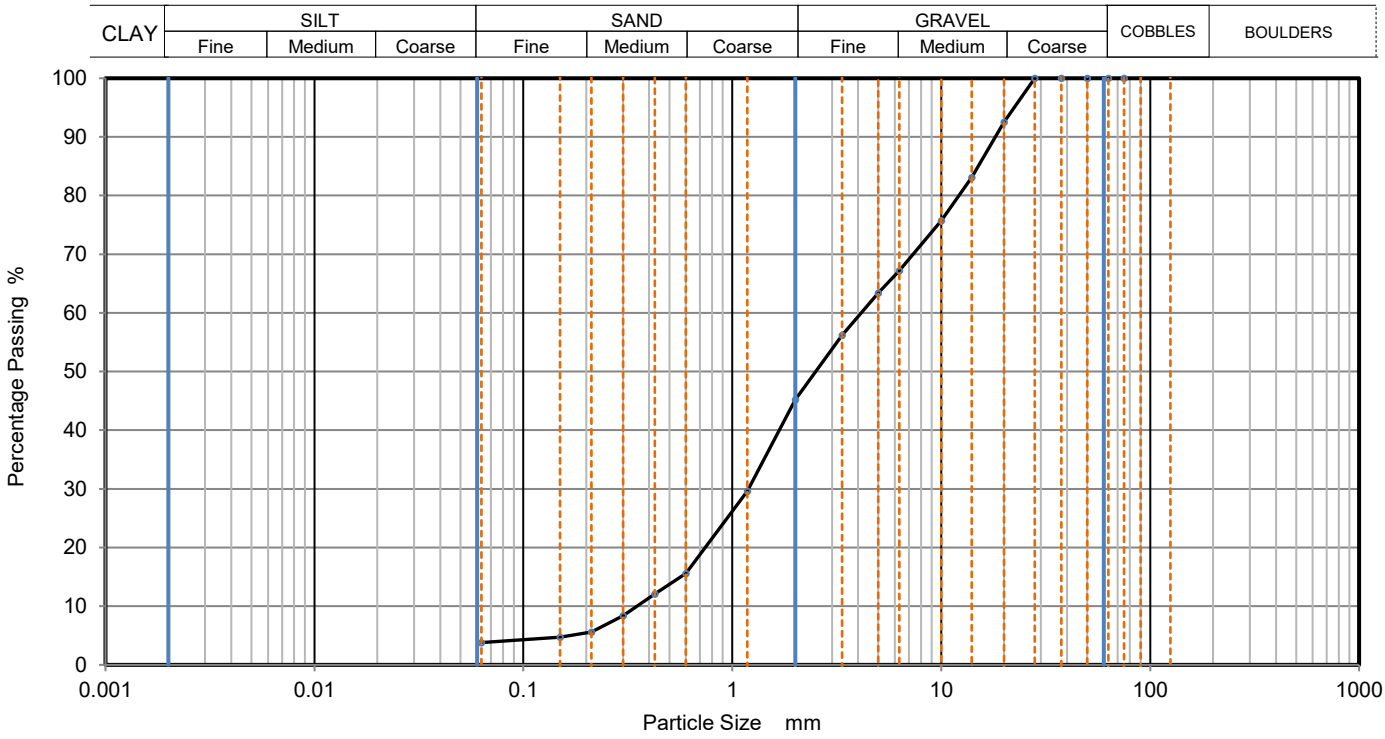
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M49
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Dark grey silty very sandy fine and medium GRAVEL.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042578



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	93		
14	83		
10	76		
6.3	67		
5	63		
3.35	56		
2	45		
1.18	30		
0.6	16		
0.425	12		
0.3	8		
0.212	6		
0.15	5		
0.063	4		

Dry Mass of sample, g	835

Sample Proportions	% dry mass
Very coarse	0
Gravel	55
Sand	41
Fines <0.063mm	4

Grading Analysis		
D100	mm	
D60	mm	4.13
D30	mm	1.2
D10	mm	0.348
Uniformity Coefficient		12
Curvature Coefficient		0.99

Remarks

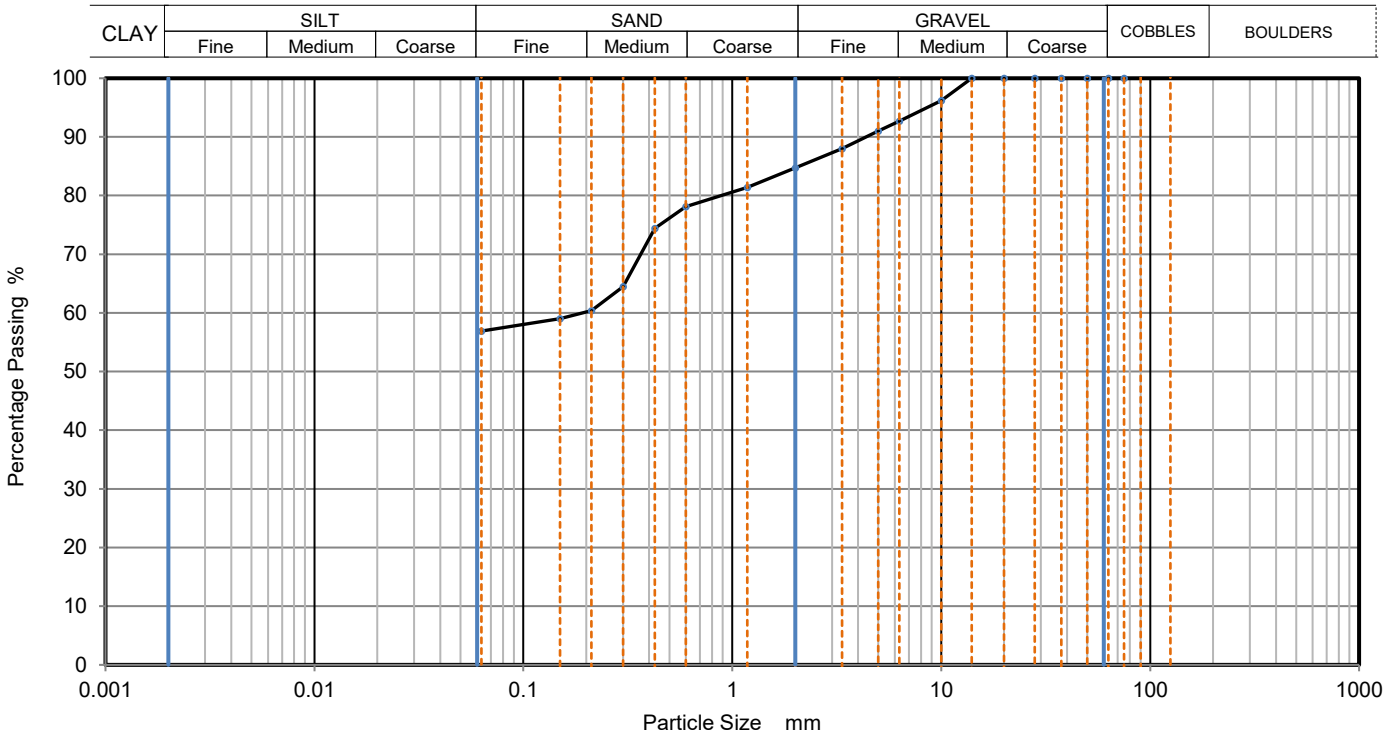
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M50
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly gravelly slightly sandy SILT.			Depth, m	0.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042597



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	96		
6.3	93		
5	91		
3.35	88		
2	85		
1.18	81		
0.6	78		
0.425	74		
0.3	65		
0.212	60		
0.15	59		
0.063	57		

Dry Mass of sample, g	562

Sample Proportions	% dry mass
Very coarse	0
Gravel	15
Sand	28
Fines <0.063mm	57

Grading Analysis		
D100	mm	
D60	mm	0.193
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

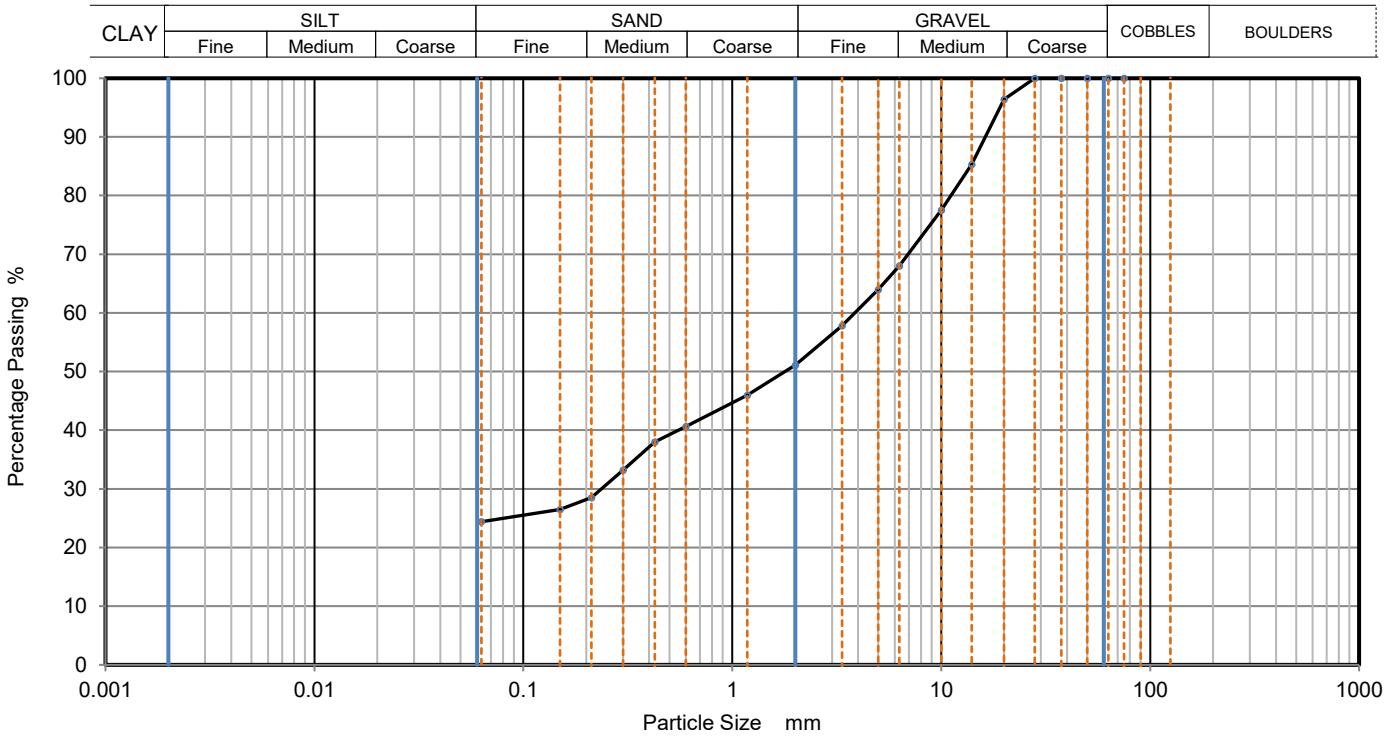
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M50
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown very silty very sandy medium GRAVEL.			Depth, m	1.30
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042599



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	96		
14	85		
10	78		
6.3	68		
5	64		
3.35	58		
2	51		
1.18	46		
0.6	41		
0.425	38		
0.3	33		
0.212	29		
0.15	27		
0.063	24		

Dry Mass of sample, g	825

Sample Proportions	% dry mass
Very coarse	0
Gravel	49
Sand	27
Fines <0.063mm	24

Grading Analysis		
D100	mm	
D60	mm	3.86
D30	mm	0.237
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

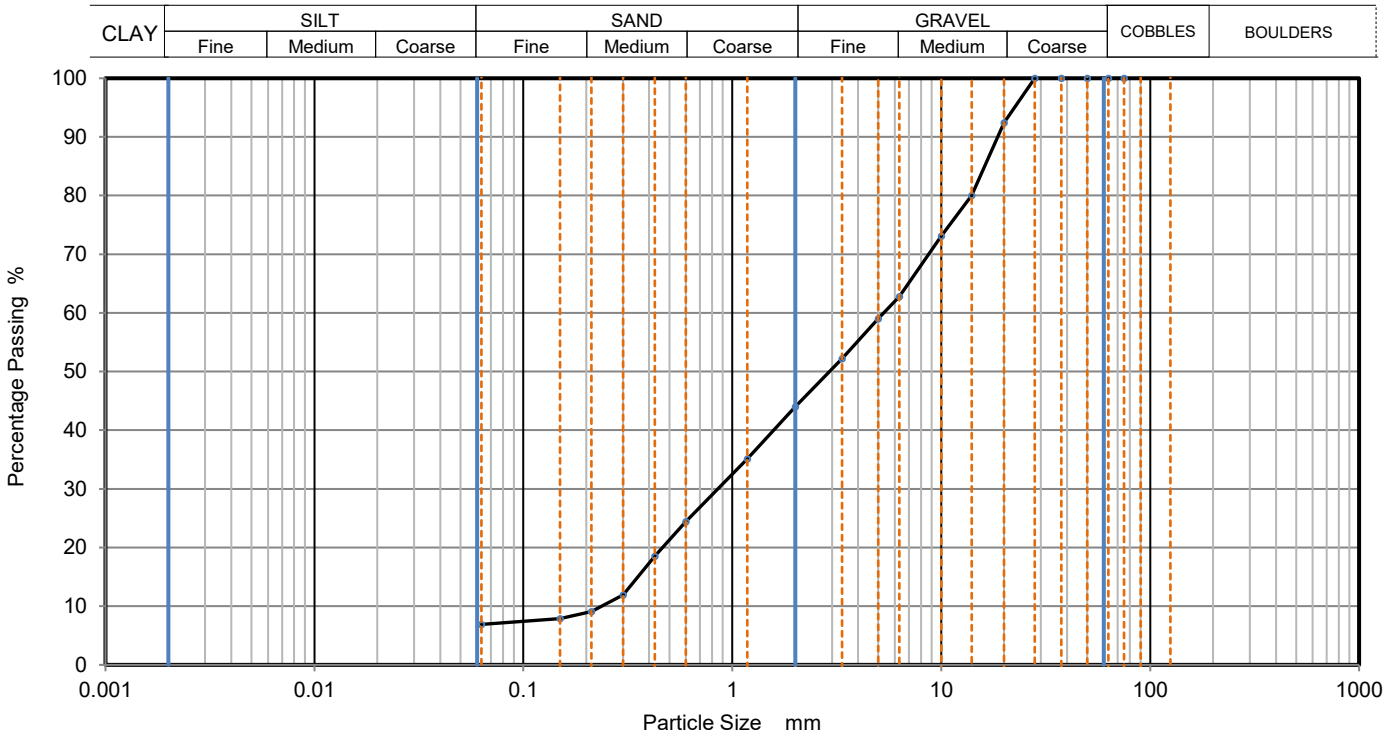
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M51
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown silty very sandy medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042580



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	92		
14	80		
10	73		
6.3	63		
5	59		
3.35	52		
2	44		
1.18	35		
0.6	24		
0.425	19		
0.3	12		
0.212	9		
0.15	8		
0.063	7		

Dry Mass of sample, g	782

Sample Proportions	% dry mass
Very coarse	0
Gravel	56
Sand	37
Fines <0.063mm	7

Grading Analysis		
D100	mm	
D60	mm	5.31
D30	mm	0.855
D10	mm	0.237
Uniformity Coefficient		22
Curvature Coefficient		0.58

Remarks

Preparation and testing in accordance with BS1377 unless noted below

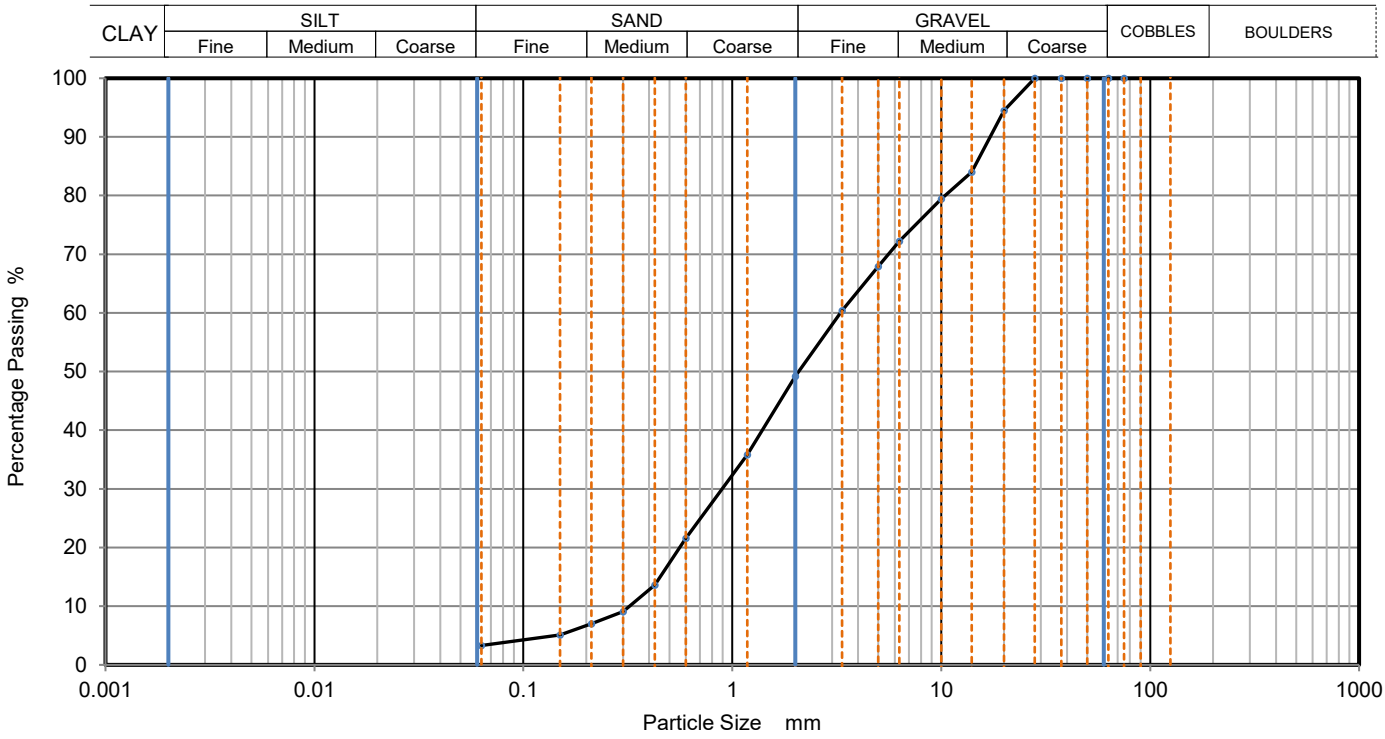
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M51
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown slightly silty coarse SAND and f+m GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042582



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	95		
14	84		
10	79		
6.3	72		
5	68		
3.35	60		
2	49		
1.18	36		
0.6	22		
0.425	14		
0.3	9		
0.212	7		
0.15	5		
0.063	3		

Dry Mass of sample, g	798

Sample Proportions	% dry mass
Very coarse	0
Gravel	51
Sand	46
Fines <0.063mm	3

Grading Analysis		
D100	mm	
D60	mm	3.3
D30	mm	0.895
D10	mm	0.322
Uniformity Coefficient		10
Curvature Coefficient		0.76

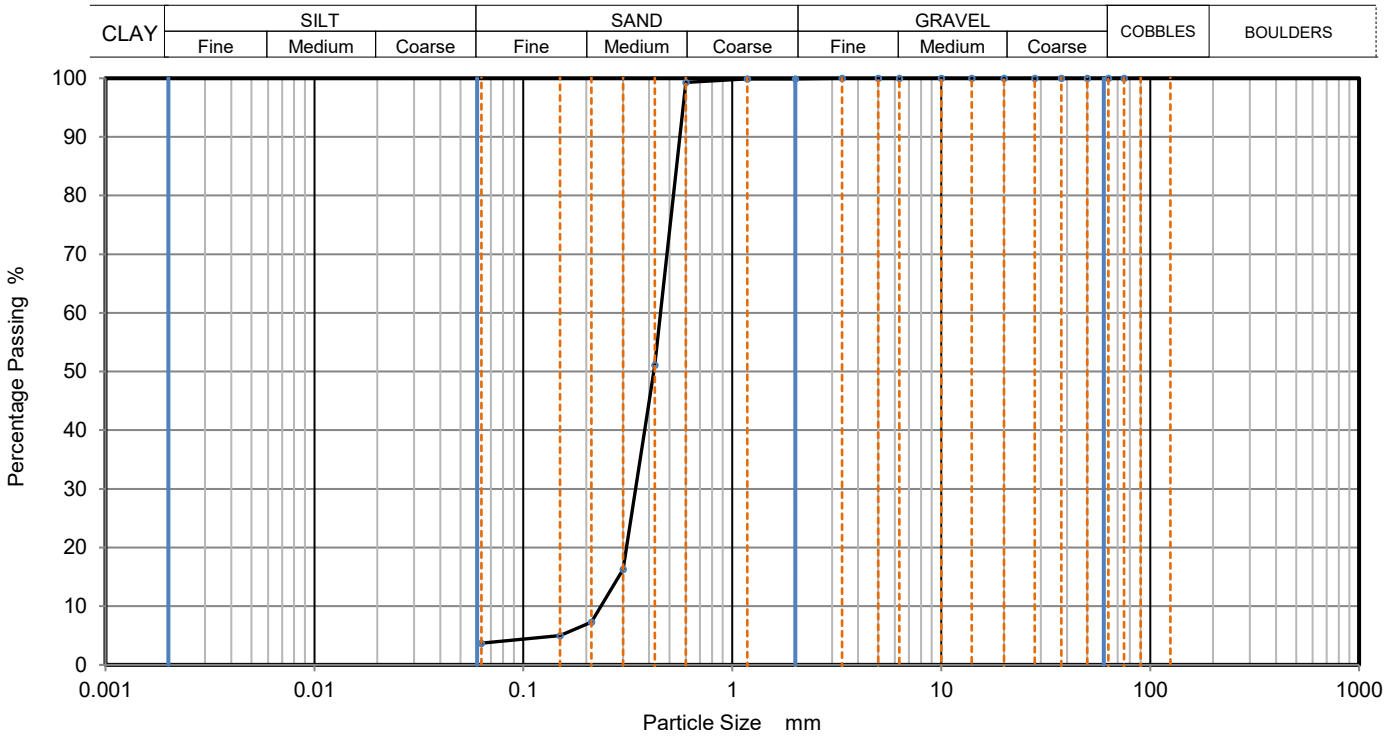
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PARTICLE SIZE DISTRIBUTION

Job Ref	2024SO105		
Borehole/Pit No.	TP-M51		
Site Name	Lot 1, Lough Talt	Sample No.	3
Soil Description	Grey slightly silty medium SAND.	Depth, m	2.50
Specimen Reference		Specimen Depth	m
Sample Type	B		
Test Method	BS1377:Part 2:1990, clause 9.2	KeyLAB ID	IDL12025042584



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	99		
0.425	51		
0.3	16		
0.212	7		
0.15	5		
0.063	4		

Dry Mass of sample, g	671

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	96
Fines <0.063mm	4

Grading Analysis		
D100	mm	
D60	mm	0.453
D30	mm	0.344
D10	mm	0.235
Uniformity Coefficient		1.9
Curvature Coefficient		1.1

Remarks

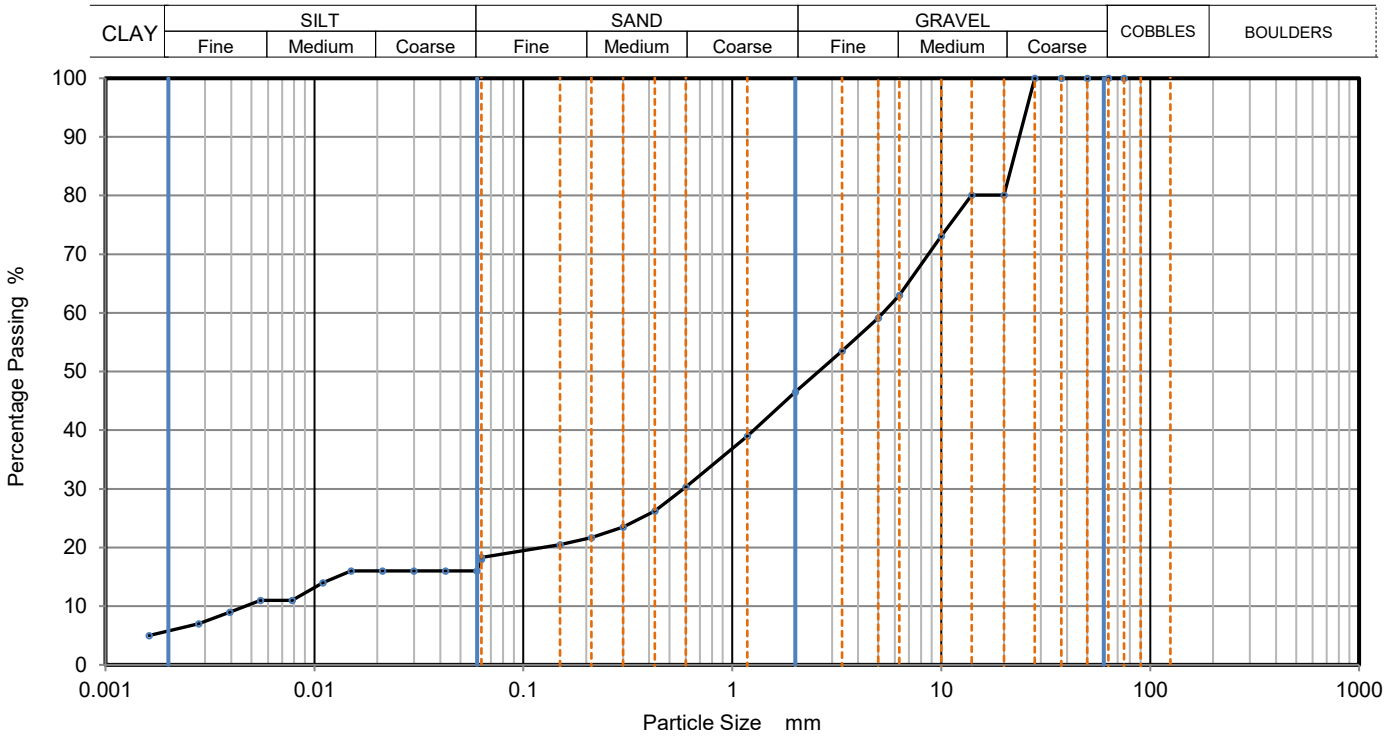
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M52
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Black-brown silty (PEATY) very sandy GRAVEL.			Depth, m	0.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025042587



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	18
		0.0599	16
75	100	0.0423	16
63	100	0.0299	16
50	100	0.0212	16
37.5	100	0.0150	16
28	100	0.0110	14
20	80	0.0078	11
14	80	0.0055	11
10	73	0.0039	9
6.3	63	0.0028	7
5	59	0.0016	5
3.35	54		
2	47		
1.18	39		
0.6	30	Particle density (assumed)	
0.425	26	2.65	Mg/m3
0.3	24		
0.212	22		
0.15	21		
0.063	18		

Dry Mass of sample, g	164

Sample Proportions	% dry mass
Very coarse	0
Gravel	54
Sand	28
Silt	13
Clay	6

Grading Analysis		
D100	mm	
D60	mm	5.26
D30	mm	0.586
D10	mm	0.00446
Uniformity Coefficient		1200
Curvature Coefficient		15

Remarks

Preparation and testing in accordance with BS1377 unless noted below

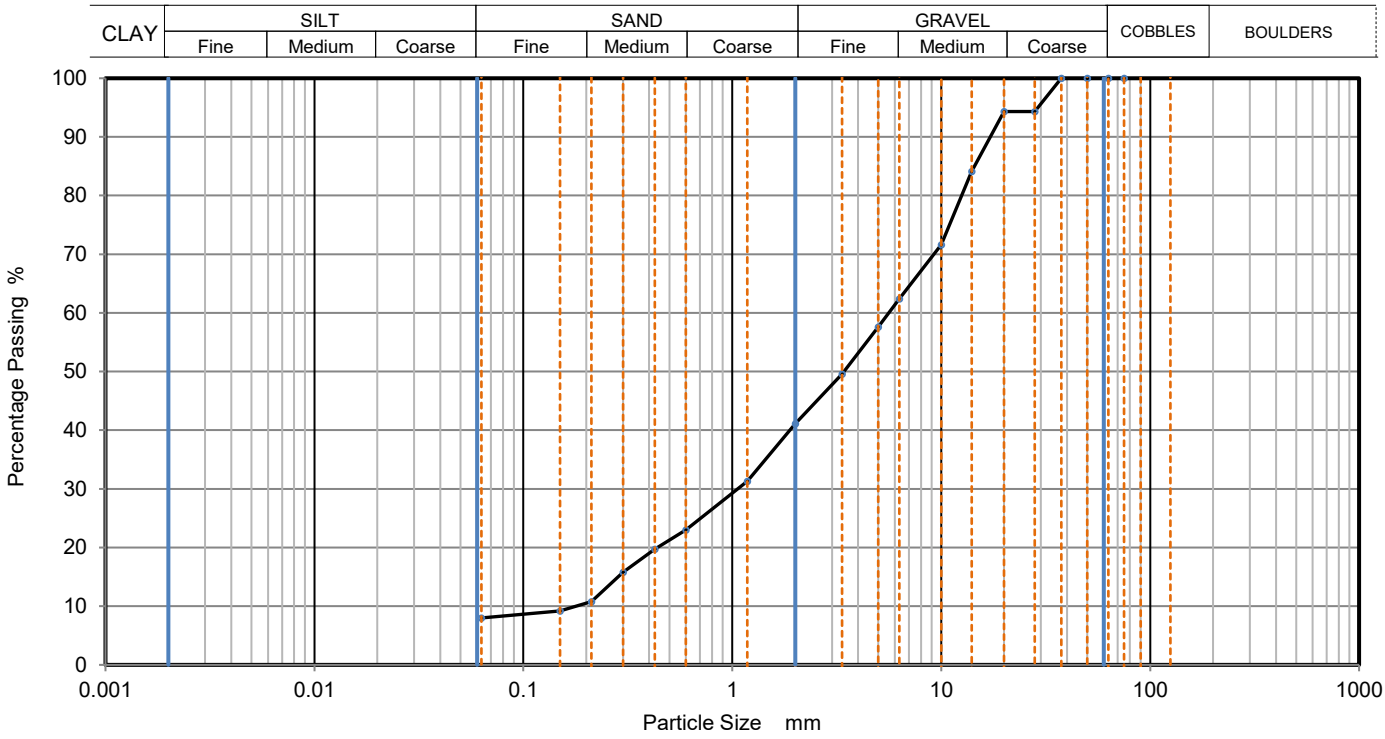
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M52
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Dark brown silty very sandy medium and fine GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042589



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	94		
20	94		
14	84		
10	72		
6.3	62		
5	58		
3.35	50		
2	41		
1.18	31		
0.6	23		
0.425	20		
0.3	16		
0.212	11		
0.15	9		
0.063	8		

Dry Mass of sample, g	685

Sample Proportions	% dry mass
Very coarse	0
Gravel	59
Sand	33
Fines <0.063mm	8

Grading Analysis		
D100	mm	
D60	mm	5.61
D30	mm	1.06
D10	mm	0.177
Uniformity Coefficient		32
Curvature Coefficient		1.1

Remarks

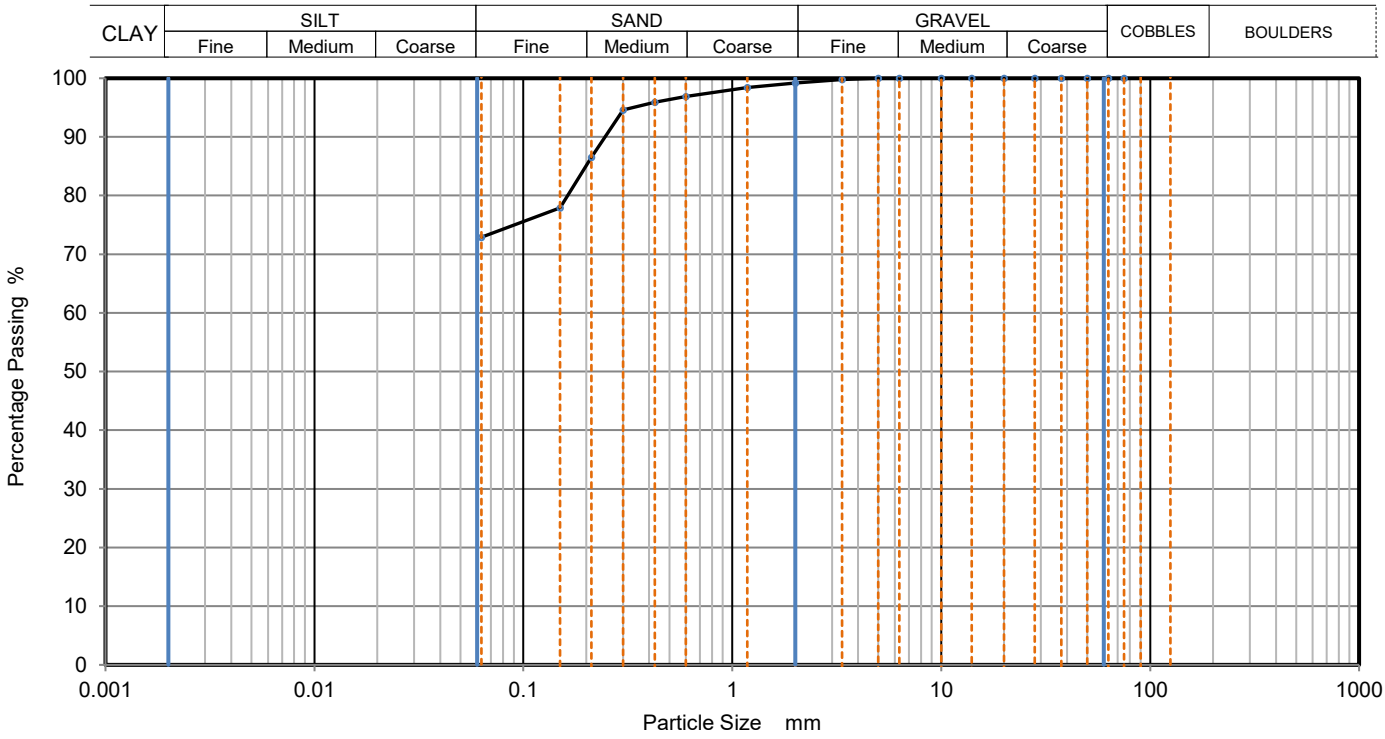
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M52
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Light brown slightly sandy SILT.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042591



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	99		
1.18	98		
0.6	97		
0.425	96		
0.3	95		
0.212	87		
0.15	78		
0.063	73		

Dry Mass of sample, g	696

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	26
Fines <0.063mm	73

Grading Analysis		
D100	mm	
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

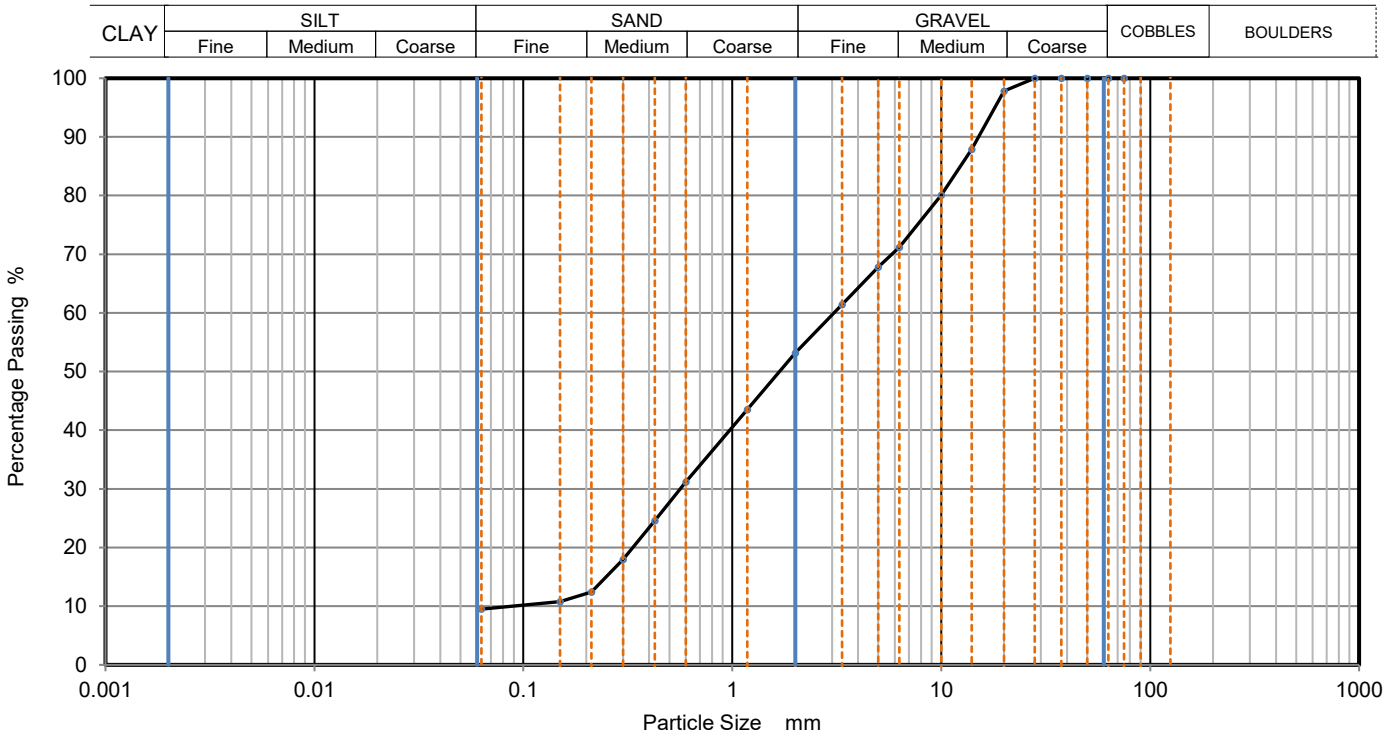
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M53
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Dark brown silty m+c SAND and medium GRAVEL.			Depth, m	0.60
Specimen Reference		Specimen Depth	m	Sample Type	D
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250429380



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	88		
10	80		
6.3	71		
5	68		
3.35	61		
2	53		
1.18	44		
0.6	31		
0.425	25		
0.3	18		
0.212	12		
0.15	11		
0.063	10		

Dry Mass of sample, g	676

Sample Proportions	% dry mass
Very coarse	0
Gravel	47
Sand	44
Fines <0.063mm	9

Grading Analysis		
D100	mm	
D60	mm	3.07
D30	mm	0.564
D10	mm	0.0896
Uniformity Coefficient		34
Curvature Coefficient		1.2

Remarks

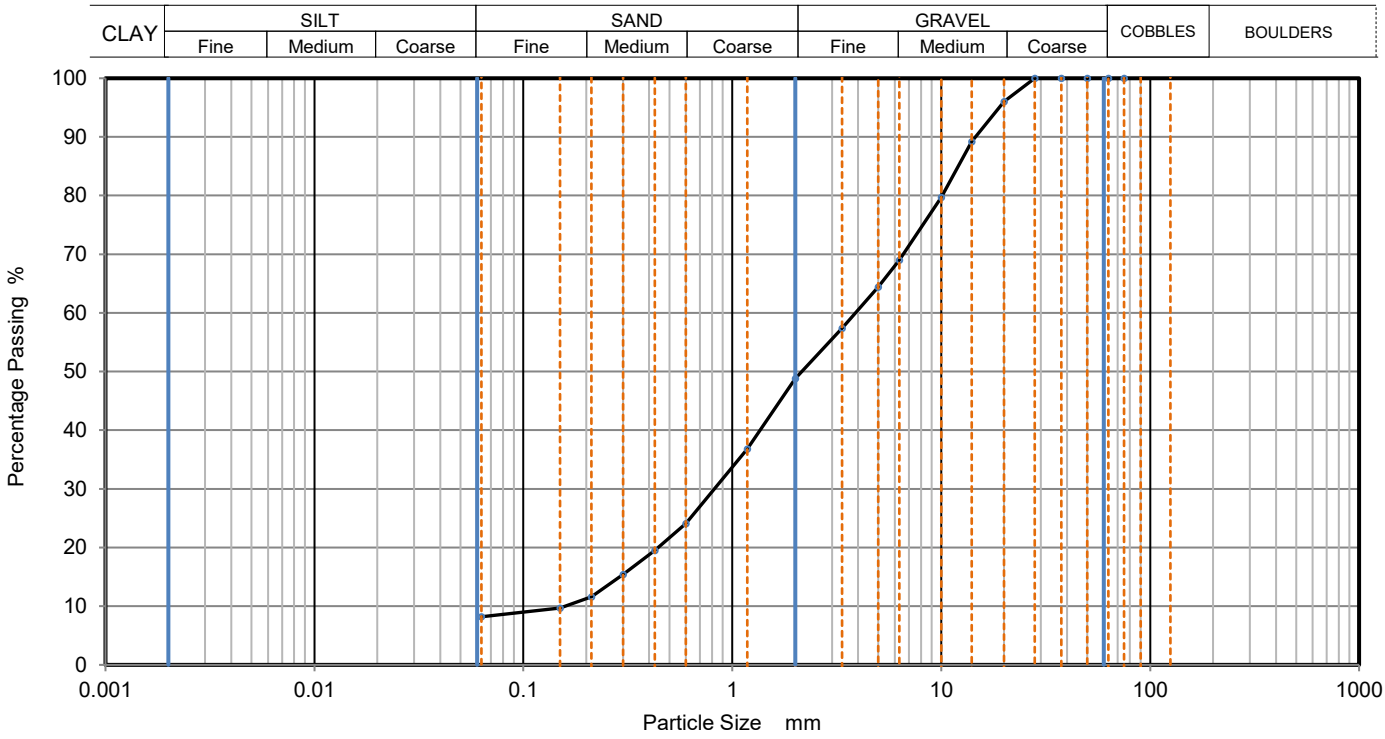
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M53
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Dark grey silty very sandy fine and medium GRAVEL.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	D
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250429382



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	96		
14	89		
10	80		
6.3	69		
5	64		
3.35	57		
2	49		
1.18	37		
0.6	24		
0.425	20		
0.3	15		
0.212	12		
0.15	10		
0.063	8		

Dry Mass of sample, g	778

Sample Proportions	% dry mass
Very coarse	0
Gravel	51
Sand	41
Fines <0.063mm	8

Grading Analysis		
D100	mm	
D60	mm	3.89
D30	mm	0.822
D10	mm	0.158
Uniformity Coefficient		25
Curvature Coefficient		1.1

Remarks

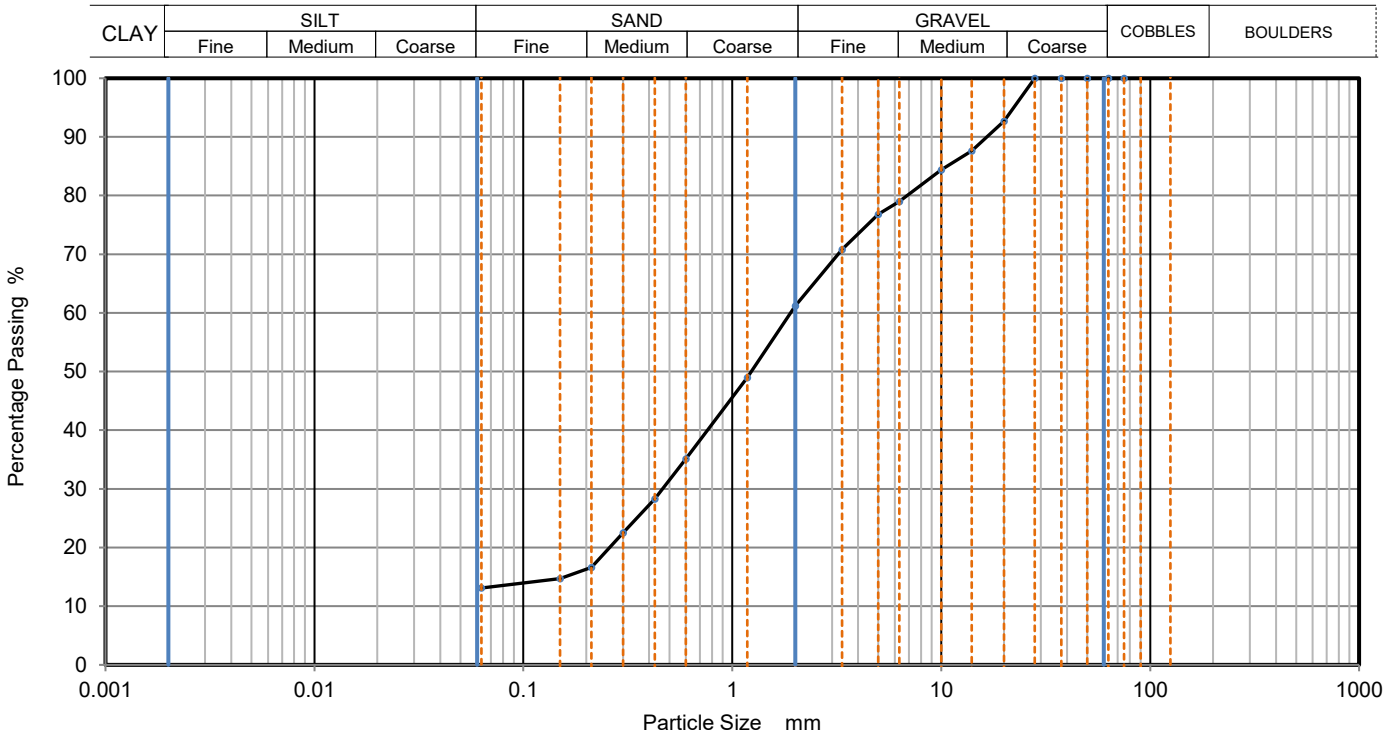
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M54
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty very gravelly coarse SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025042593



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	93		
14	88		
10	84		
6.3	79		
5	77		
3.35	71		
2	61		
1.18	49		
0.6	35		
0.425	28		
0.3	23		
0.212	17		
0.15	15		
0.063	13		

Dry Mass of sample, g	750

Sample Proportions	% dry mass
Very coarse	0
Gravel	39
Sand	48
Fines <0.063mm	13

Grading Analysis		
D100	mm	
D60	mm	1.9
D30	mm	0.463
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

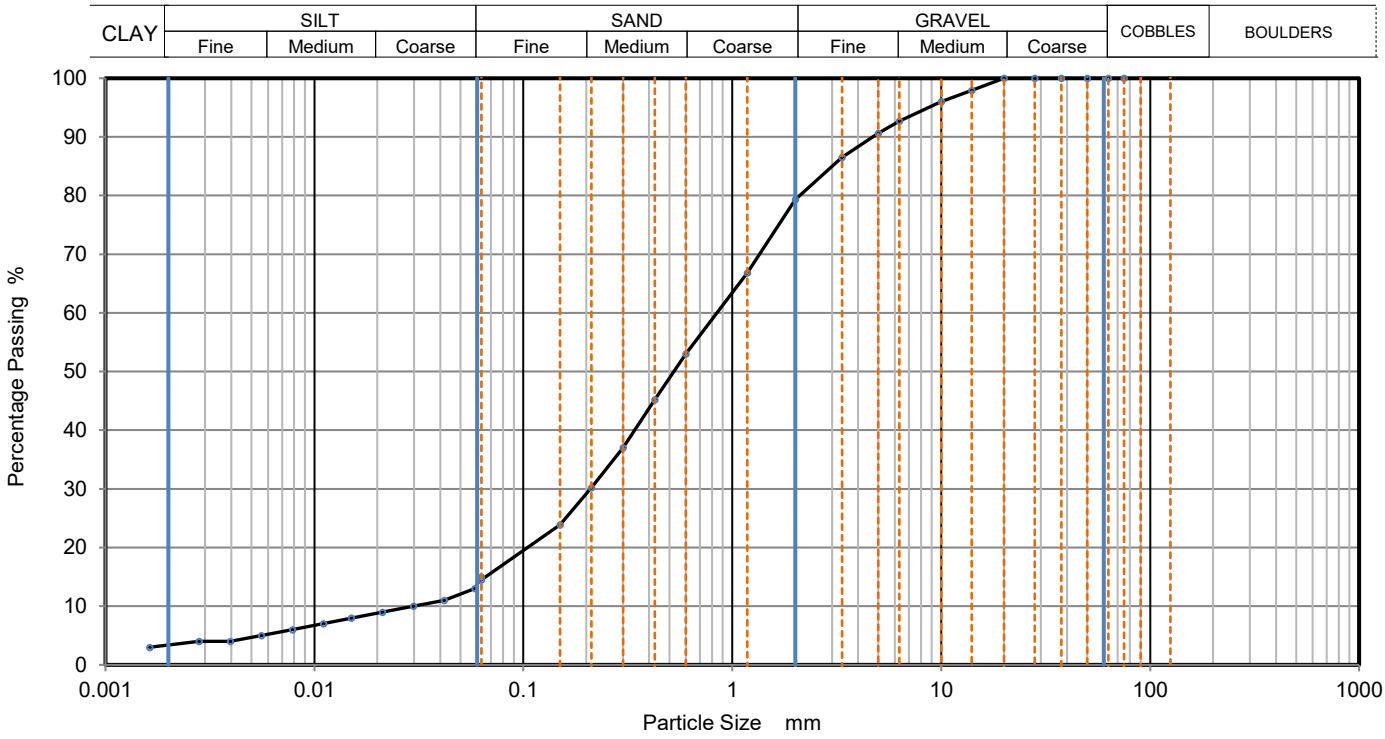
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M57
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown silty very gravelly medium and coarse SAND.			Depth, m	0.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202508070



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	15
		0.0585	13
75	100	0.0418	11
63	100	0.0298	10
50	100	0.0212	9
37.5	100	0.0150	8
28	100	0.0110	7
20	100	0.0078	6
14	98	0.0056	5
10	96	0.0040	4
6.3	93	0.0028	4
5	91	0.0016	3
3.35	87		
2	79		
1.18	67		
0.6	53	Particle density (assumed)	
0.425	45	2.65	Mg/m3
0.3	37		
0.212	30		
0.15	24		
0.063	15		

Dry Mass of sample, g	621

Sample Proportions	% dry mass
Very coarse	0
Gravel	21
Sand	65
Silt	11
Clay	4

Grading Analysis		
D100	mm	
D60	mm	0.846
D30	mm	0.21
D10	mm	0.0264
Uniformity Coefficient		32
Curvature Coefficient		2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

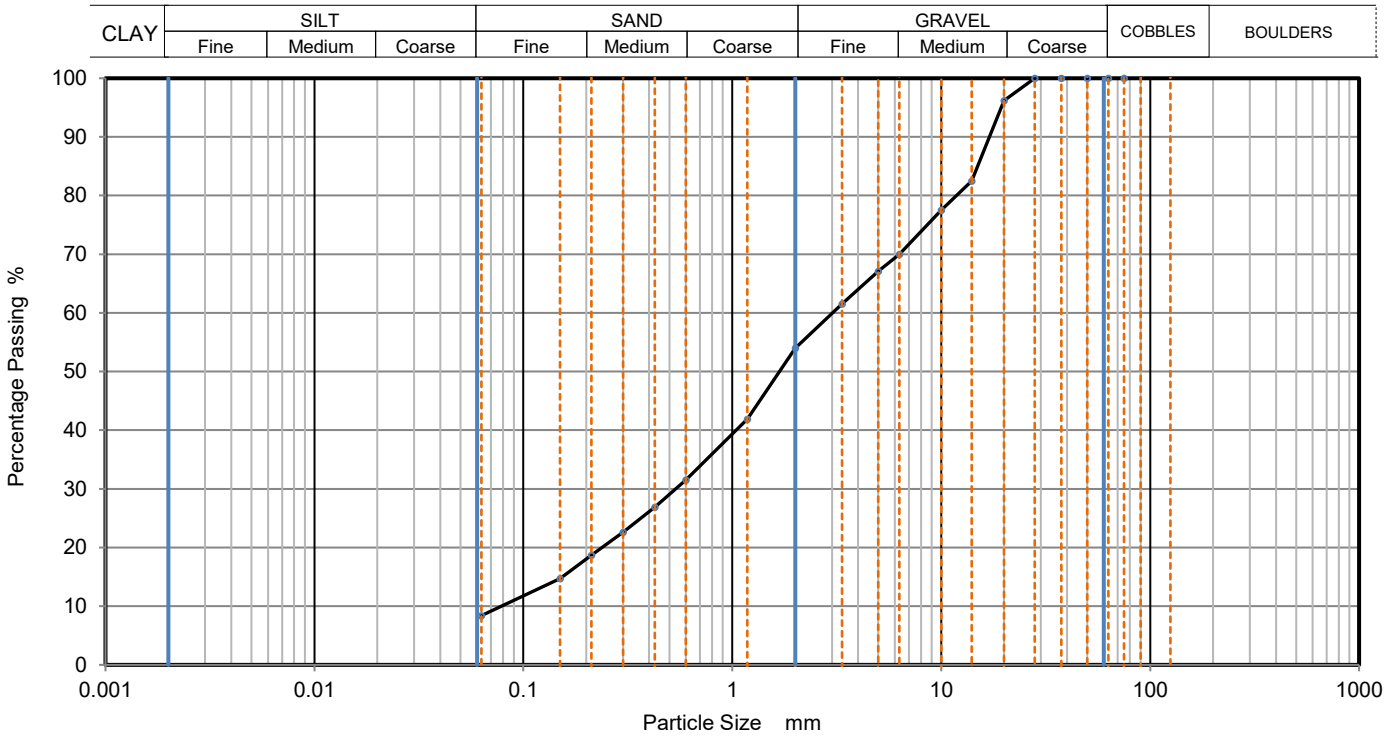
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M57
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Brown silty coarse SAND and medium GRAVEL.			Depth, m	0.90
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202508071



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	96		
14	83		
10	78		
6.3	70		
5	67		
3.35	62		
2	54		
1.18	42		
0.6	32		
0.425	27		
0.3	23		
0.212	19		
0.15	15		
0.063	8		

Dry Mass of sample, g	809

Sample Proportions	% dry mass
Very coarse	0
Gravel	46
Sand	46
Fines <0.063mm	8

Grading Analysis		
D100	mm	
D60	mm	3.02
D30	mm	0.536
D10	mm	0.0782
Uniformity Coefficient		39
Curvature Coefficient		1.2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

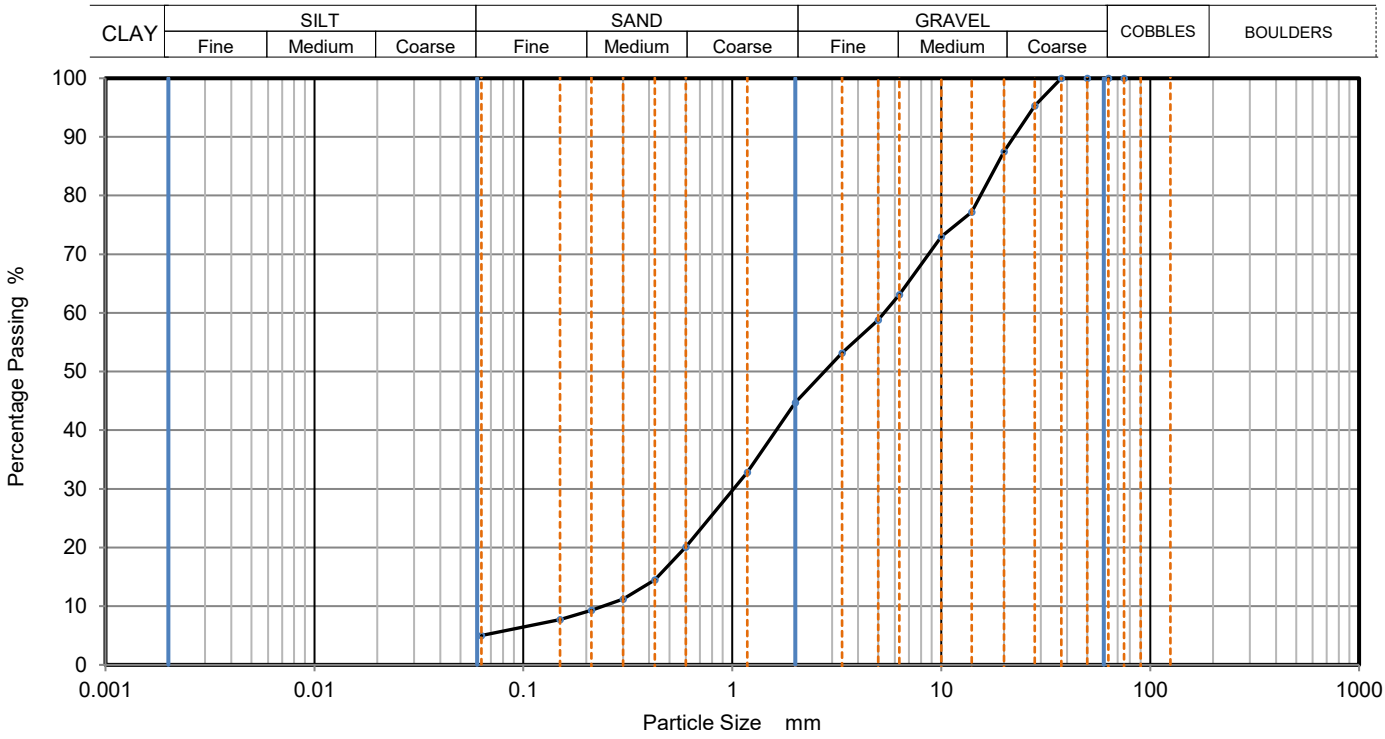
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M57
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown silty very sandy RAVEL. Sand is coarse.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202508072



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	95		
20	88		
14	77		
10	73		
6.3	63		
5	59		
3.35	53		
2	45		
1.18	33		
0.6	20		
0.425	15		
0.3	11		
0.212	9		
0.15	8		
0.063	5		

Dry Mass of sample, g	802

Sample Proportions	% dry mass
Very coarse	0
Gravel	55
Sand	40
Fines <0.063mm	5

Grading Analysis		
D100	mm	
D60	mm	5.34
D30	mm	1.02
D10	mm	0.242
Uniformity Coefficient		22
Curvature Coefficient		0.8

Remarks

Preparation and testing in accordance with BS1377 unless noted below

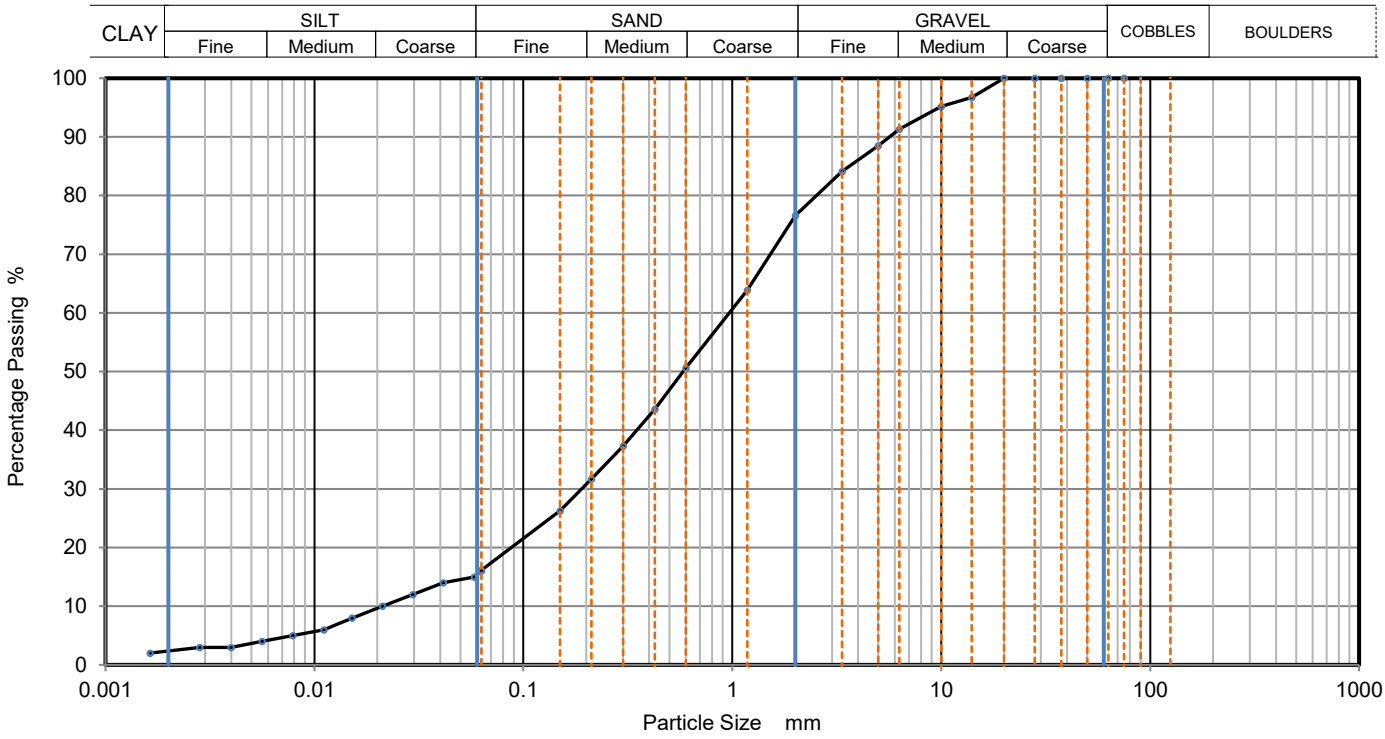
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M58
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown silty very gravelly coarse SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202508073



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	16
		0.0582	15
75	100	0.0414	14
63	100	0.0296	12
50	100	0.0212	10
37.5	100	0.0151	8
28	100	0.0111	6
20	100	0.0079	5
14	97	0.0056	4
10	95	0.0040	3
6.3	91	0.0028	3
5	89	0.0016	2
3.35	84		
2	77		
1.18	64		
0.6	51	Particle density (assumed)	
0.425	44	2.65	Mg/m3
0.3	37		
0.212	32		
0.15	26		
0.063	16		

Dry Mass of sample, g	687

Sample Proportions	% dry mass
Very coarse	0
Gravel	23
Sand	61
Silt	14
Clay	3

Grading Analysis		
D100	mm	
D60	mm	0.968
D30	mm	0.19
D10	mm	0.0223
Uniformity Coefficient		43
Curvature Coefficient		1.7

Remarks

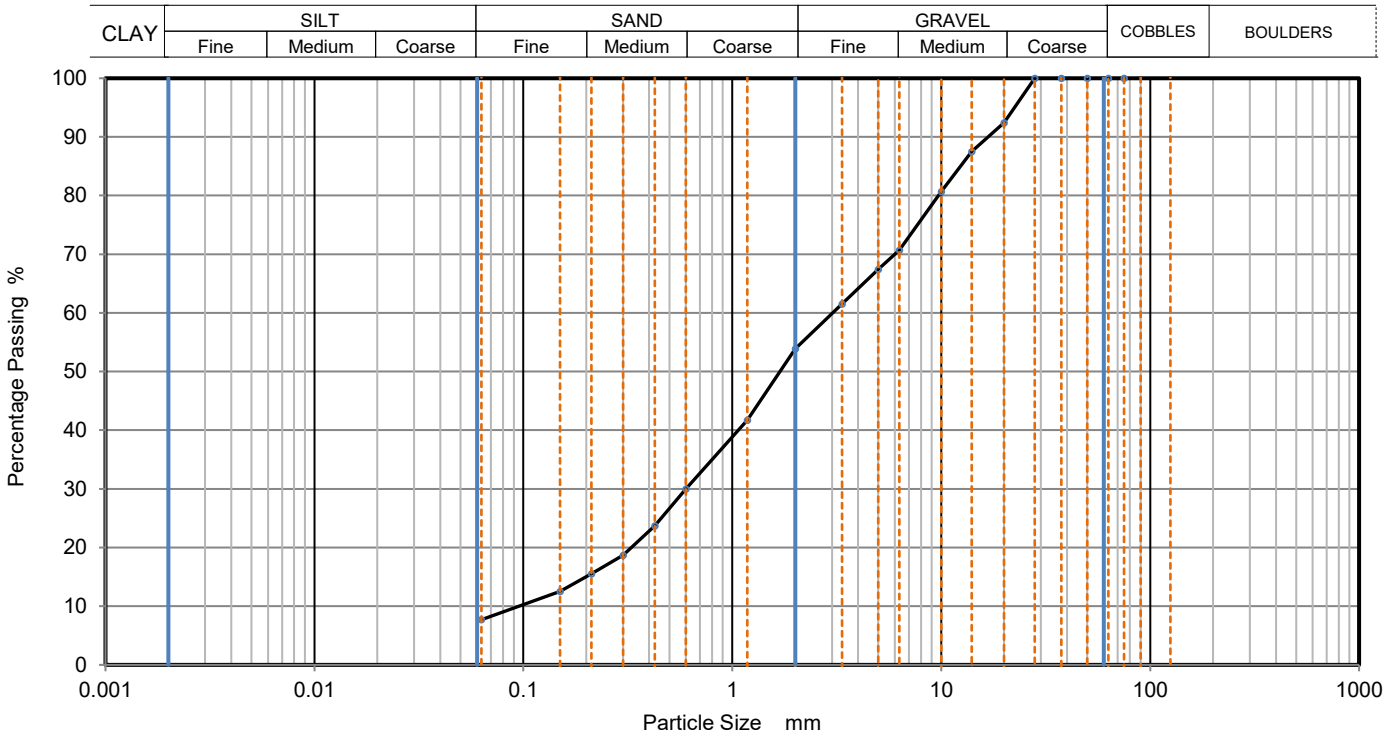
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M58
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Brown silty coarse SAND and medium GRAVEL.			Depth, m	0.80
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202508074



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	92		
14	88		
10	81		
6.3	71		
5	67		
3.35	62		
2	54		
1.18	42		
0.6	30		
0.425	24		
0.3	19		
0.212	16		
0.15	13		
0.063	8		

Dry Mass of sample, g	753

Sample Proportions	% dry mass
Very coarse	0
Gravel	46
Sand	46
Fines <0.063mm	8

Grading Analysis		
D100	mm	
D60	mm	3.02
D30	mm	0.601
D10	mm	0.0951
Uniformity Coefficient		32
Curvature Coefficient		1.3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

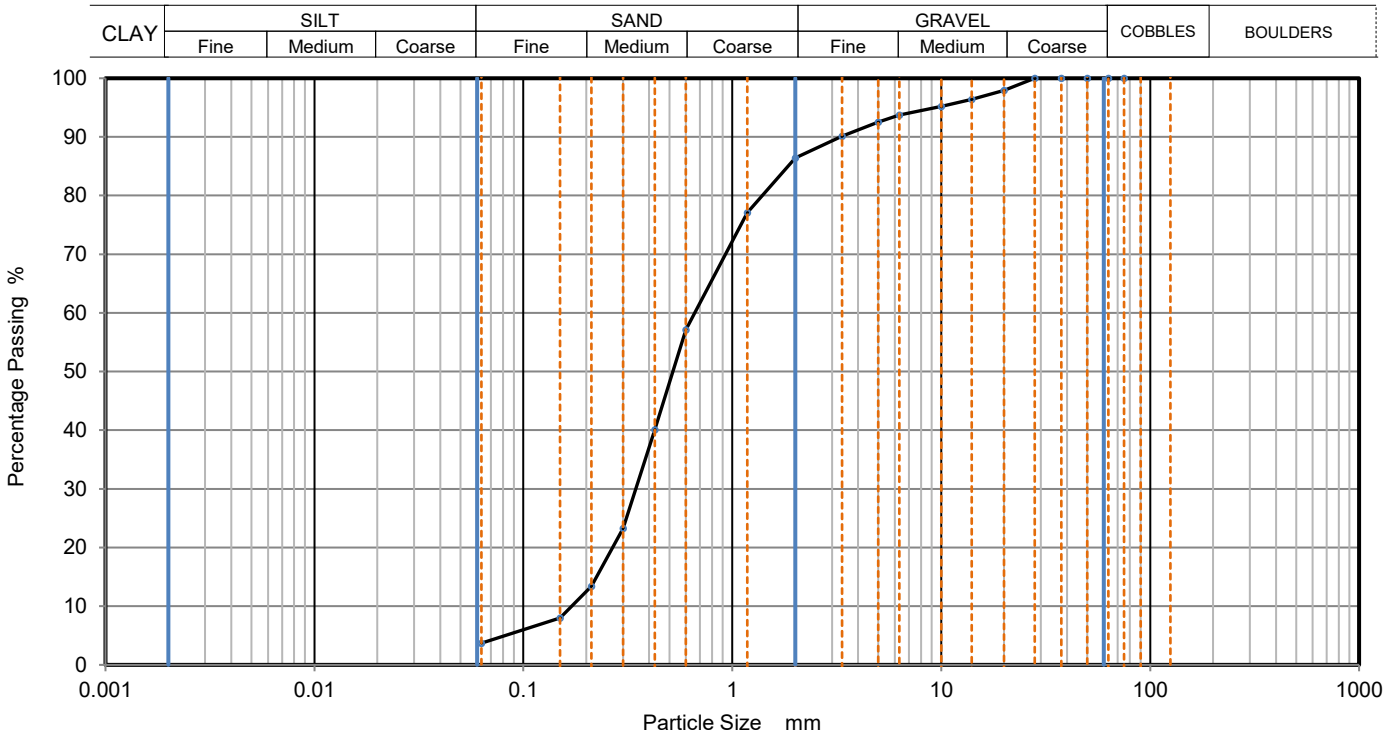
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M58
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown slightly silty gravelly medium SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202508075



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	96		
10	95		
6.3	94		
5	93		
3.35	90		
2	86		
1.18	77		
0.6	57		
0.425	40		
0.3	23		
0.212	13		
0.15	8		
0.063	4		

Dry Mass of sample, g: 799

Sample Proportions	% dry mass
Very coarse	0
Gravel	14
Sand	83
Fines <0.063mm	4

Grading Analysis		
D100	mm	
D60	mm	0.662
D30	mm	0.345
D10	mm	0.171
Uniformity Coefficient		3.9
Curvature Coefficient		1.1

Remarks

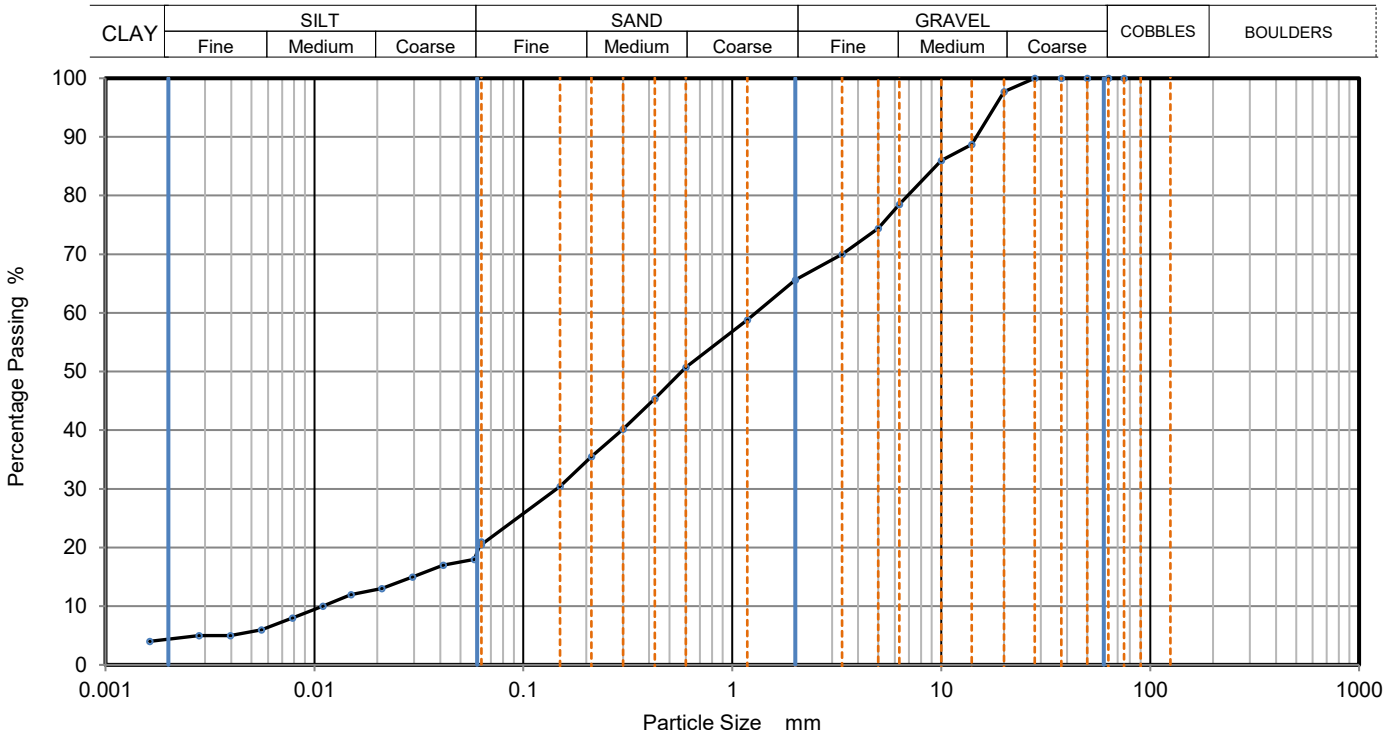
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M61
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown very silty very gravelly SAND.			Depth, m	0.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202508076



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	21
		0.0582	18
75	100	0.0414	17
63	100	0.0294	15
50	100	0.0210	13
37.5	100	0.0150	12
28	100	0.0110	10
20	98	0.0078	8
14	89	0.0056	6
10	86	0.0040	5
6.3	79	0.0028	5
5	74	0.0016	4
3.35	70		
2	66		
1.18	59		
0.6	51	Particle density (assumed)	
0.425	45	2.65 Mg/m3	
0.3	40		
0.212	36		
0.15	30		
0.063	21		

Dry Mass of sample, g	782

Sample Proportions	% dry mass
Very coarse	0
Gravel	34
Sand	45
Silt	16
Clay	4

Grading Analysis		
D100	mm	
D60	mm	1.29
D30	mm	0.145
D10	mm	0.0106
Uniformity Coefficient		120
Curvature Coefficient		1.5

Remarks

Preparation and testing in accordance with BS1377 unless noted below

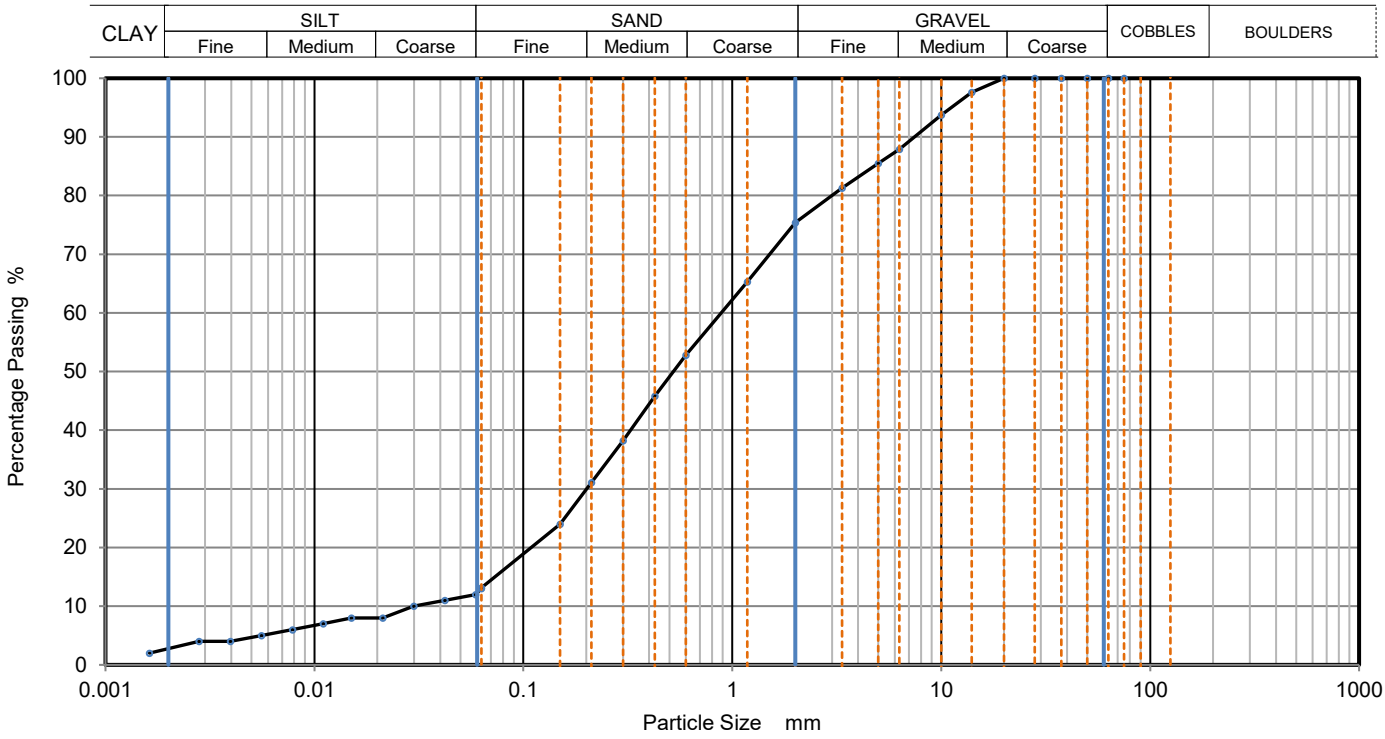
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M61
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Dark brown silty very gravelly medium and coarse SAND.			Depth, m	1.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202508077



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	13
		0.0591	12
75	100	0.0420	11
63	100	0.0299	10
50	100	0.0212	8
37.5	100	0.0150	8
28	100	0.0110	7
20	100	0.0078	6
14	98	0.0056	5
10	94	0.0040	4
6.3	88	0.0028	4
5	86	0.0016	2
3.35	81		
2	75		
1.18	65		
0.6	53	Particle density (assumed)	
0.425	46	2.65	Mg/m3
0.3	38		
0.212	31		
0.15	24		
0.063	13		

Dry Mass of sample, g	640

Sample Proportions	% dry mass
Very coarse	0
Gravel	25
Sand	62
Silt	10
Clay	3

Grading Analysis		
D100	mm	
D60	mm	0.884
D30	mm	0.201
D10	mm	0.0342
Uniformity Coefficient		26
Curvature Coefficient		1.3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

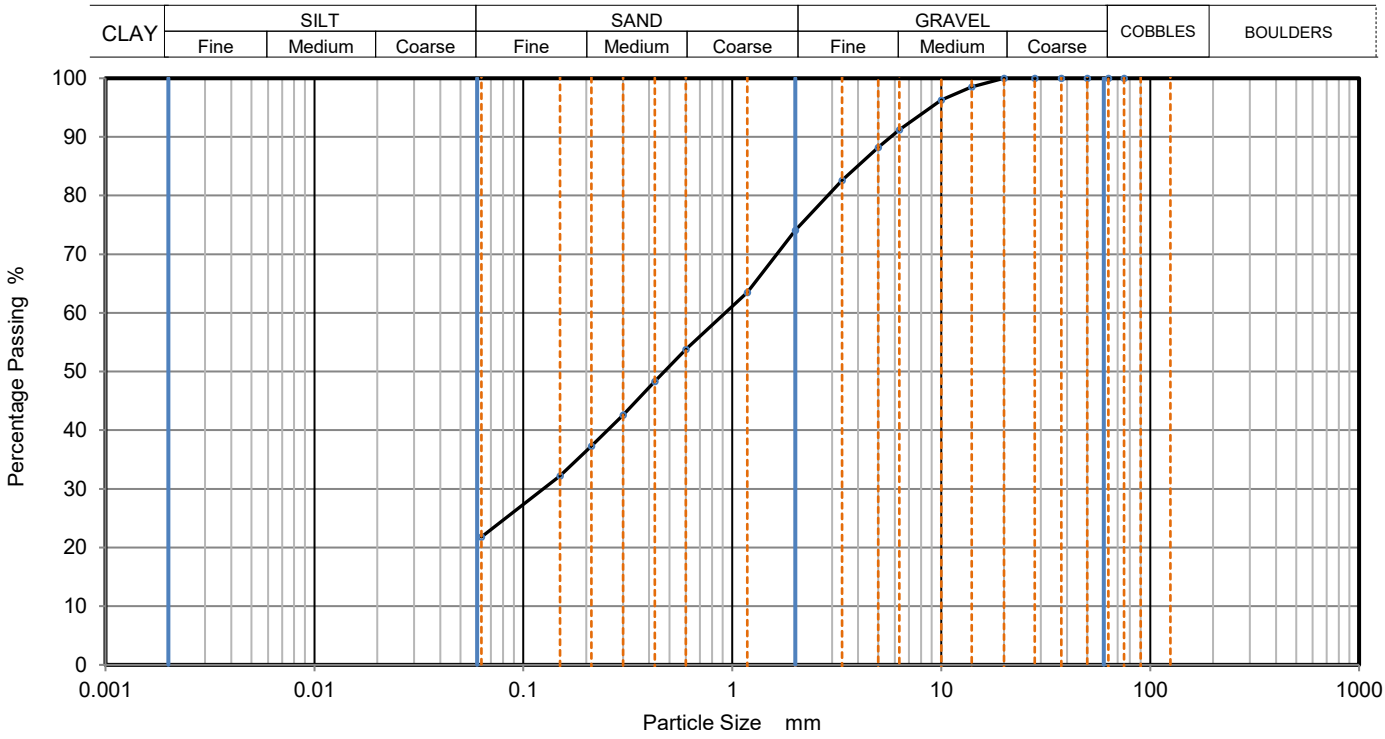
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M61
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown very silty very gravelly SAND. Gravel is fine.			Depth, m	2.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202508078



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	96		
6.3	91		
5	88		
3.35	83		
2	74		
1.18	64		
0.6	54		
0.425	48		
0.3	43		
0.212	37		
0.15	32		
0.063	22		

Dry Mass of sample, g	900

Sample Proportions	% dry mass
Very coarse	0
Gravel	26
Sand	52
Fines <0.063mm	22

Grading Analysis		
D100	mm	
D60	mm	0.925
D30	mm	0.125
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

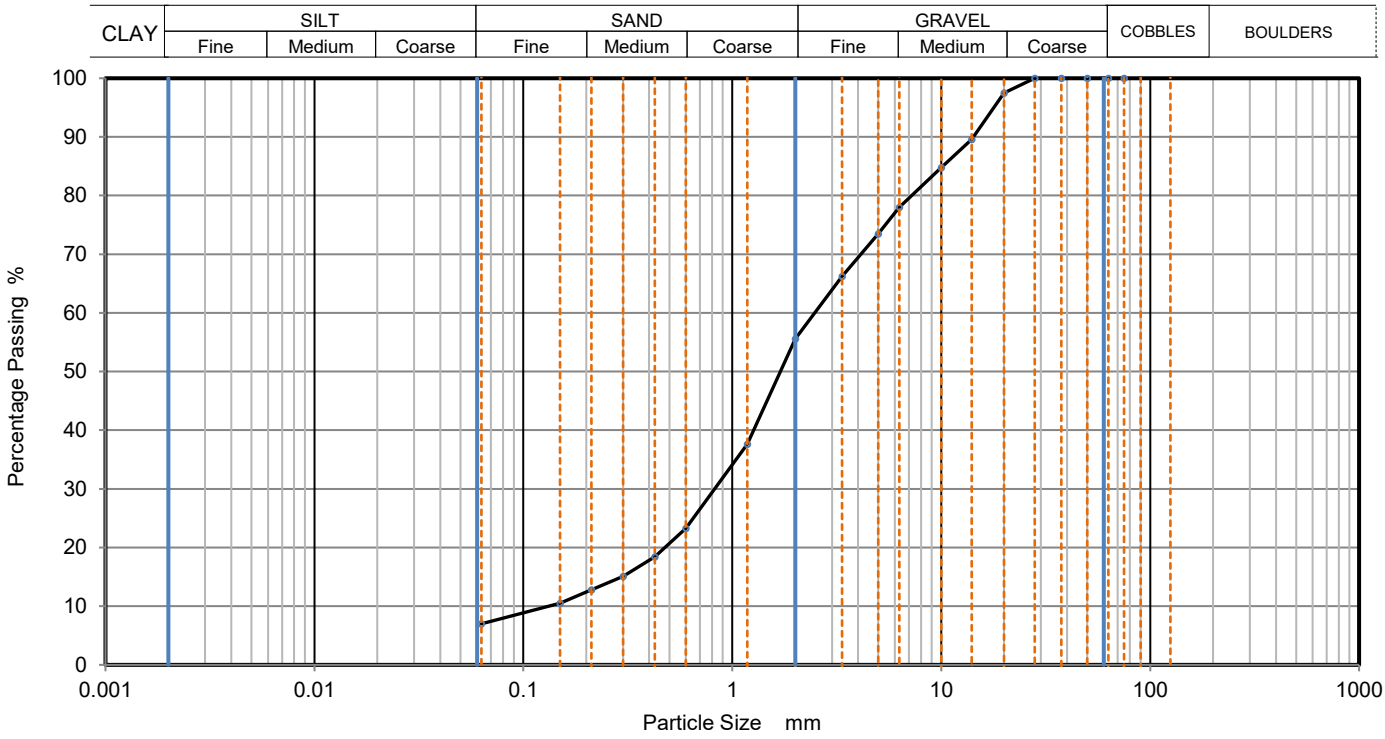
Preparation and testing in accordance with BS1377 unless noted below

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				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M64
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown silty coarse SAND and medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202508079



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	90		
10	85		
6.3	78		
5	74		
3.35	66		
2	56		
1.18	38		
0.6	23		
0.425	18		
0.3	15		
0.212	13		
0.15	11		
0.063	7		

Dry Mass of sample, g	784

Sample Proportions	% dry mass
Very coarse	0
Gravel	44
Sand	49
Fines <0.063mm	7

Grading Analysis		
D100	mm	
D60	mm	2.48
D30	mm	0.823
D10	mm	0.131
Uniformity Coefficient		19
Curvature Coefficient		2.1

Remarks

Preparation and testing in accordance with BS1377 unless noted below

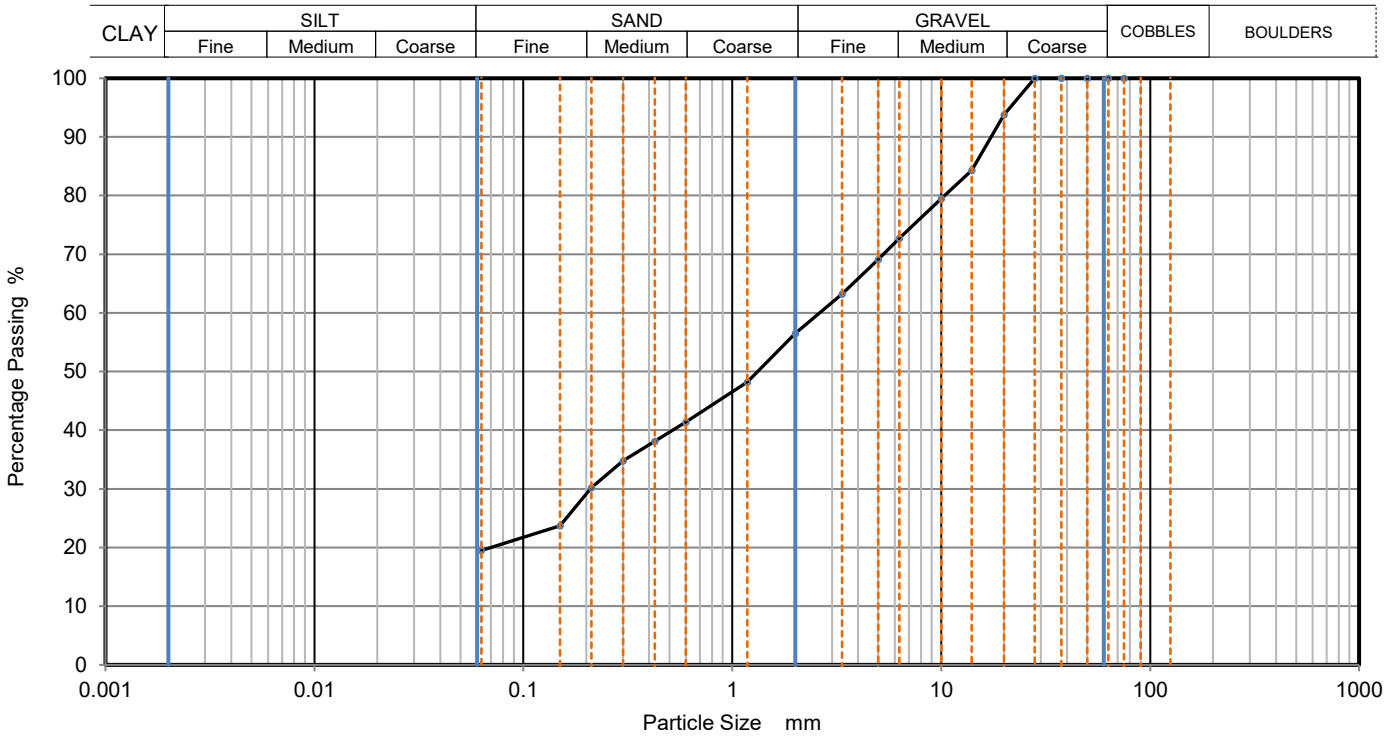
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M64
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Greyish-brown very silty very sandy medium GRAVEL.			Depth, m	1.10
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080710



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	94		
14	84		
10	80		
6.3	73		
5	69		
3.35	63		
2	57		
1.18	48		
0.6	41		
0.425	38		
0.3	35		
0.212	30		
0.15	24		
0.063	20		

Dry Mass of sample, g	768

Sample Proportions	% dry mass
Very coarse	0
Gravel	44
Sand	37
Fines <0.063mm	20

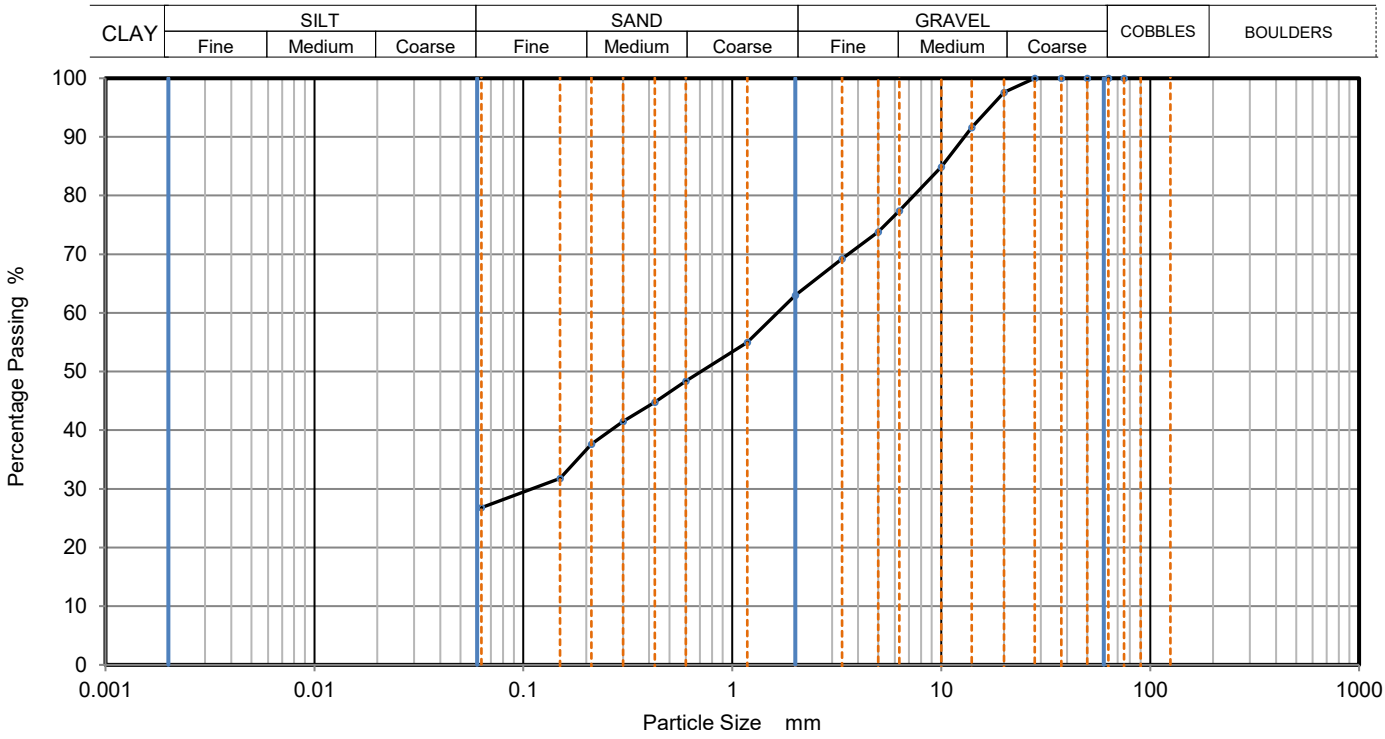
Grading Analysis		
D100	mm	
D60	mm	2.62
D30	mm	0.21
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M64
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Greyish-brown very silty SAND and GRAVEL. Gravel is medium.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080711



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	92		
10	85		
6.3	77		
5	74		
3.35	69		
2	63		
1.18	55		
0.6	48		
0.425	45		
0.3	42		
0.212	38		
0.15	32		
0.063	27		

Dry Mass of sample, g	801

Sample Proportions	% dry mass
Very coarse	0
Gravel	37
Sand	36
Fines <0.063mm	27

Grading Analysis		
D100	mm	
D60	mm	1.64
D30	mm	0.11
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

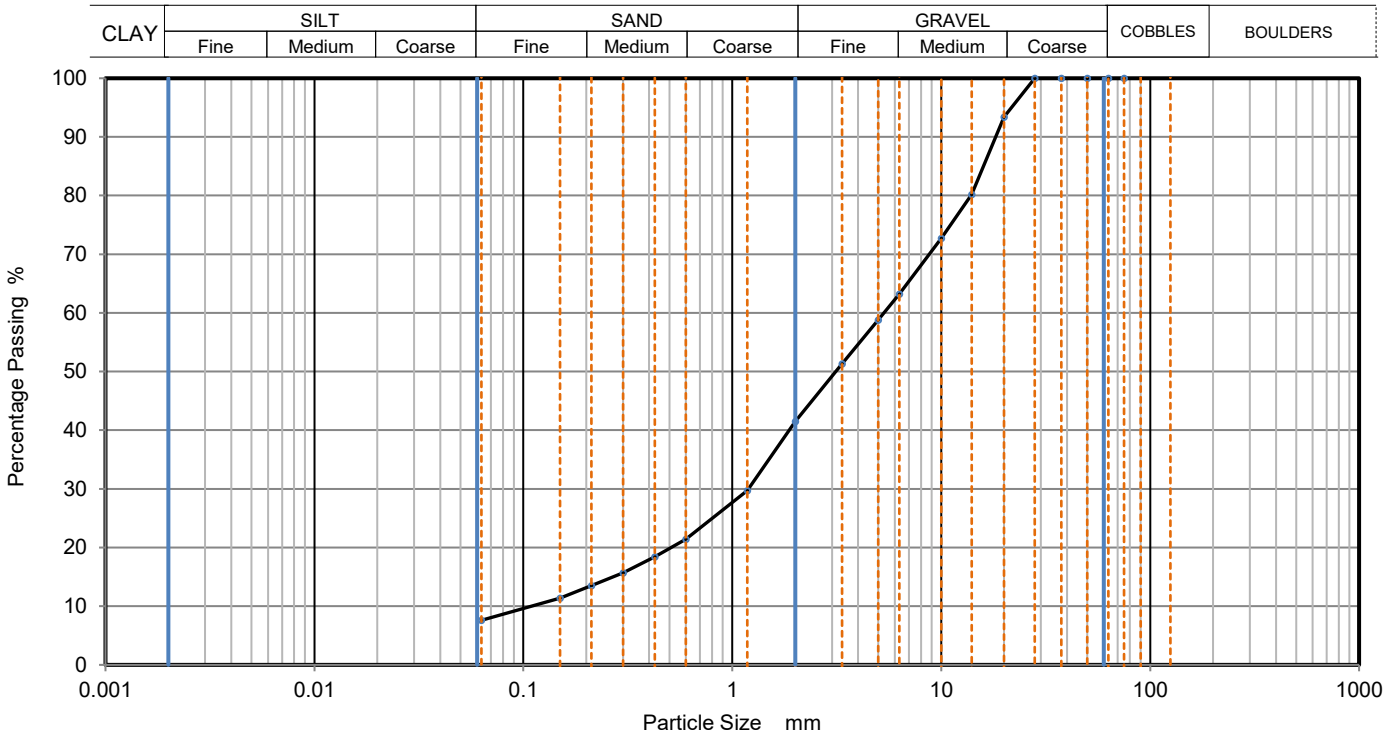
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M65
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty very sandy fine and medium GRAVEL. Sand is coarse.			Depth, m	0.30
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080712



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	93		
14	80		
10	73		
6.3	63		
5	59		
3.35	51		
2	42		
1.18	30		
0.6	21		
0.425	18		
0.3	16		
0.212	14		
0.15	11		
0.063	8		

Dry Mass of sample, g: 897

Sample Proportions	% dry mass
Very coarse	0
Gravel	59
Sand	34
Fines <0.063mm	8

Grading Analysis		
D100	mm	
D60	mm	5.32
D30	mm	1.2
D10	mm	0.11
Uniformity Coefficient		48
Curvature Coefficient		2.4

Remarks

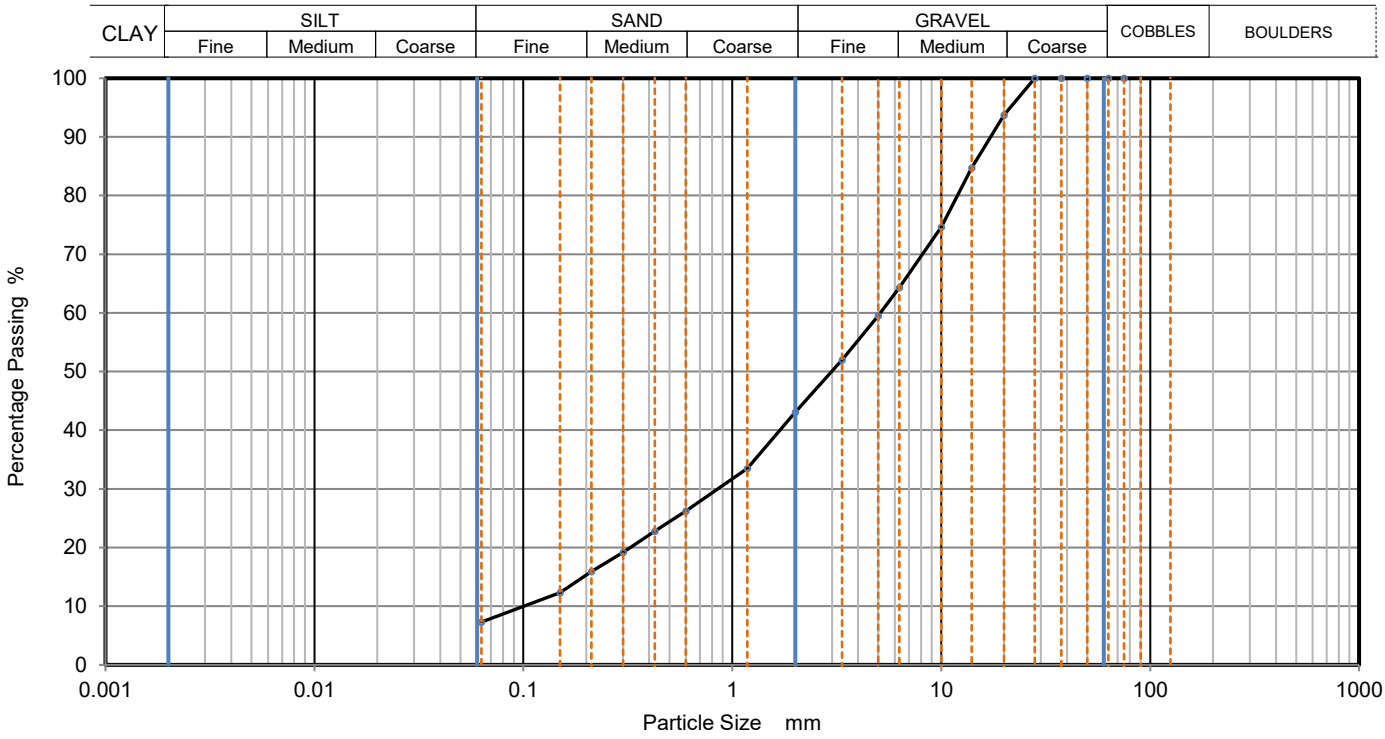
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M65
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Light brown silty very sandy fine and medium GRAVEL.			Depth, m	1.10
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080713



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	94		
14	85		
10	75		
6.3	64		
5	60		
3.35	52		
2	43		
1.18	34		
0.6	26		
0.425	23		
0.3	19		
0.212	16		
0.15	12		
0.063	7		

Dry Mass of sample, g	1001

Sample Proportions	% dry mass
Very coarse	0
Gravel	57
Sand	36
Fines <0.063mm	7

Grading Analysis		
D100	mm	
D60	mm	5.12
D30	mm	0.85
D10	mm	0.101
Uniformity Coefficient		51
Curvature Coefficient		1.4

Remarks

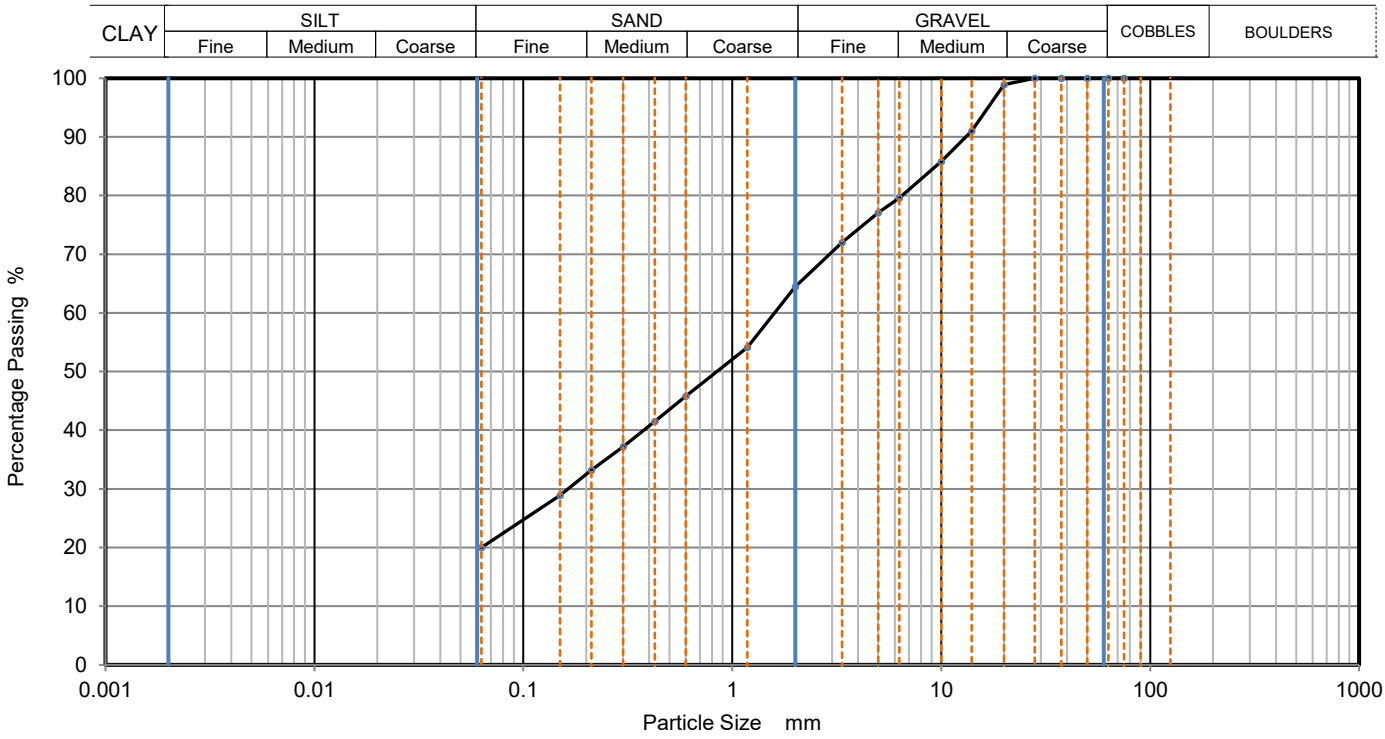
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M66
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown very silty very gravelly SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080714



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	99		
14	91		
10	86		
6.3	80		
5	77		
3.35	72		
2	65		
1.18	54		
0.6	46		
0.425	42		
0.3	37		
0.212	33		
0.15	29		
0.063	20		

Dry Mass of sample, g	994

Sample Proportions	% dry mass
Very coarse	0
Gravel	36
Sand	45
Fines <0.063mm	20

Grading Analysis		
D100	mm	
D60	mm	1.59
D30	mm	0.164
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

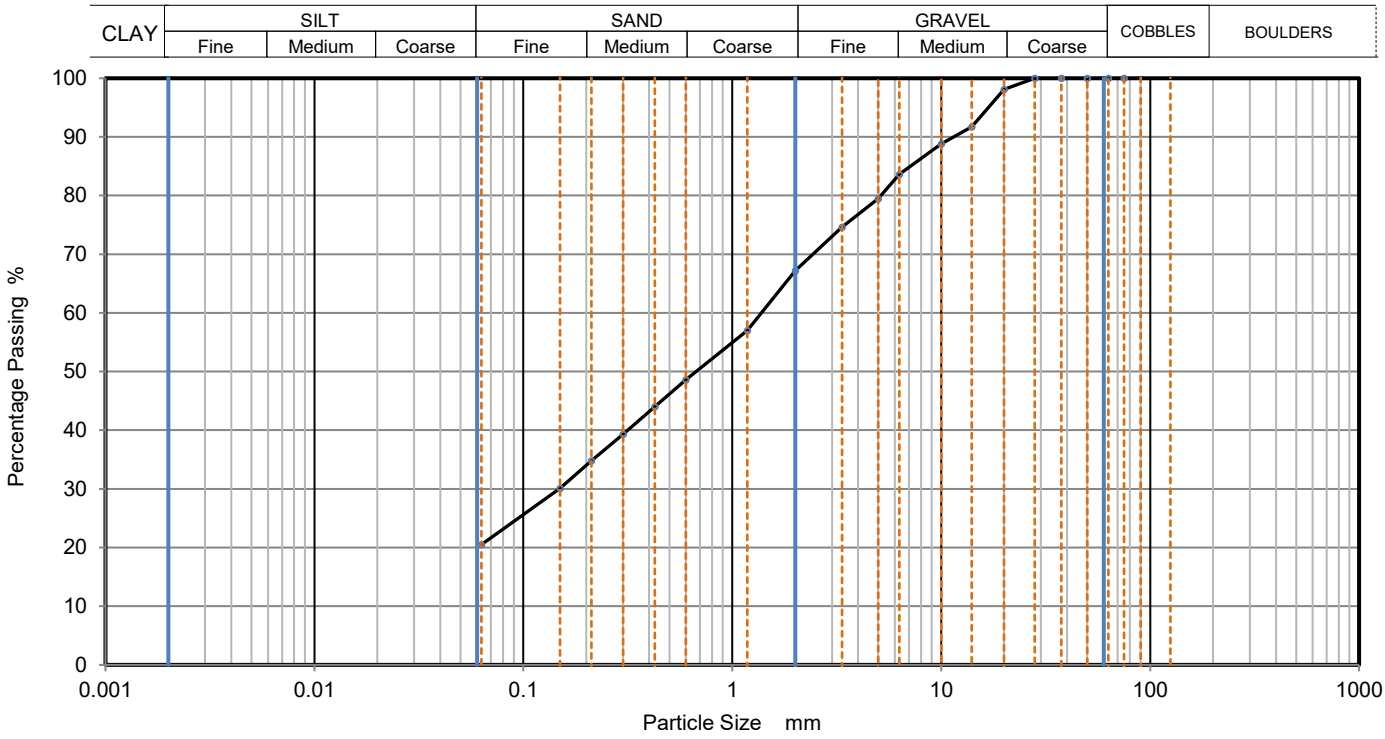
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M66
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Light brown very silty very gravelly SAND.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080716



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	92		
10	89		
6.3	84		
5	80		
3.35	75		
2	67		
1.18	57		
0.6	49		
0.425	44		
0.3	39		
0.212	35		
0.15	30		
0.063	21		

Dry Mass of sample, g	977

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	47
Fines <0.063mm	21

Grading Analysis		
D100	mm	
D60	mm	1.38
D30	mm	0.149
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

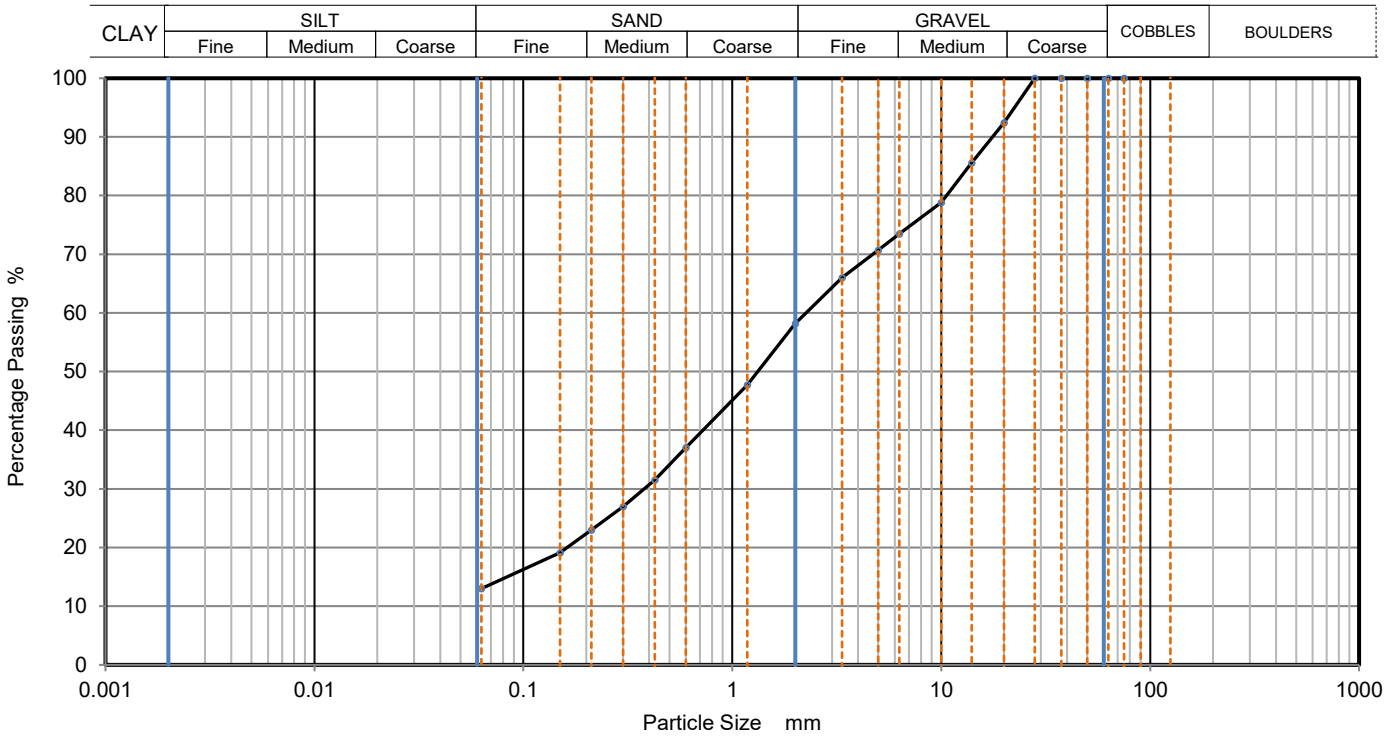
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M68
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown silty SAND and GRAVEL. Sand is coarse.			Depth, m	0.80
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080717



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	92		
14	86		
10	79		
6.3	74		
5	71		
3.35	66		
2	58		
1.18	48		
0.6	37		
0.425	32		
0.3	27		
0.212	23		
0.15	19		
0.063	13		

Dry Mass of sample, g	797

Sample Proportions	% dry mass
Very coarse	0
Gravel	42
Sand	45
Fines <0.063mm	13

Grading Analysis		
D100	mm	
D60	mm	2.26
D30	mm	0.379
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

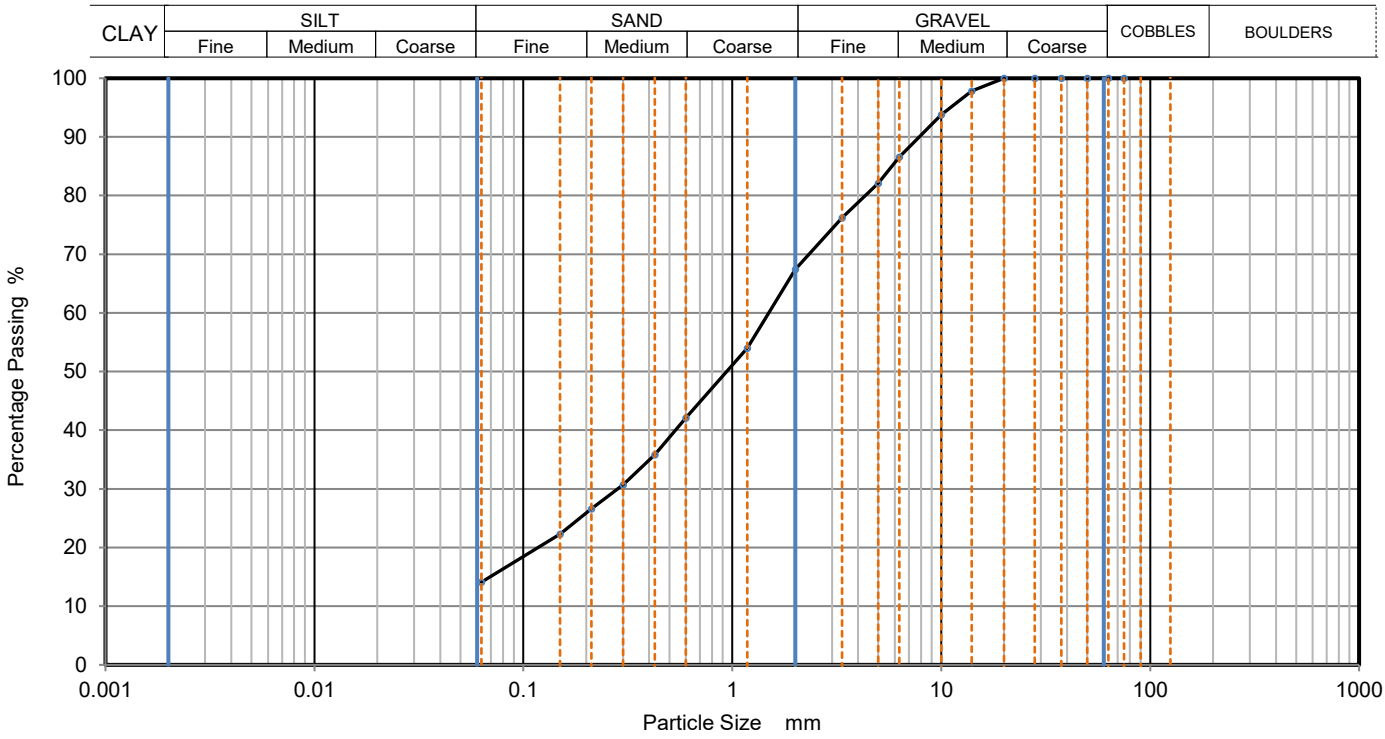
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M68
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Brown silty very gravelly coarse SAND.			Depth, m	1.80
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080718



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	94		
6.3	87		
5	82		
3.35	76		
2	67		
1.18	54		
0.6	42		
0.425	36		
0.3	31		
0.212	27		
0.15	22		
0.063	14		

Dry Mass of sample, g	803

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	53
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	1.49
D30	mm	0.282
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

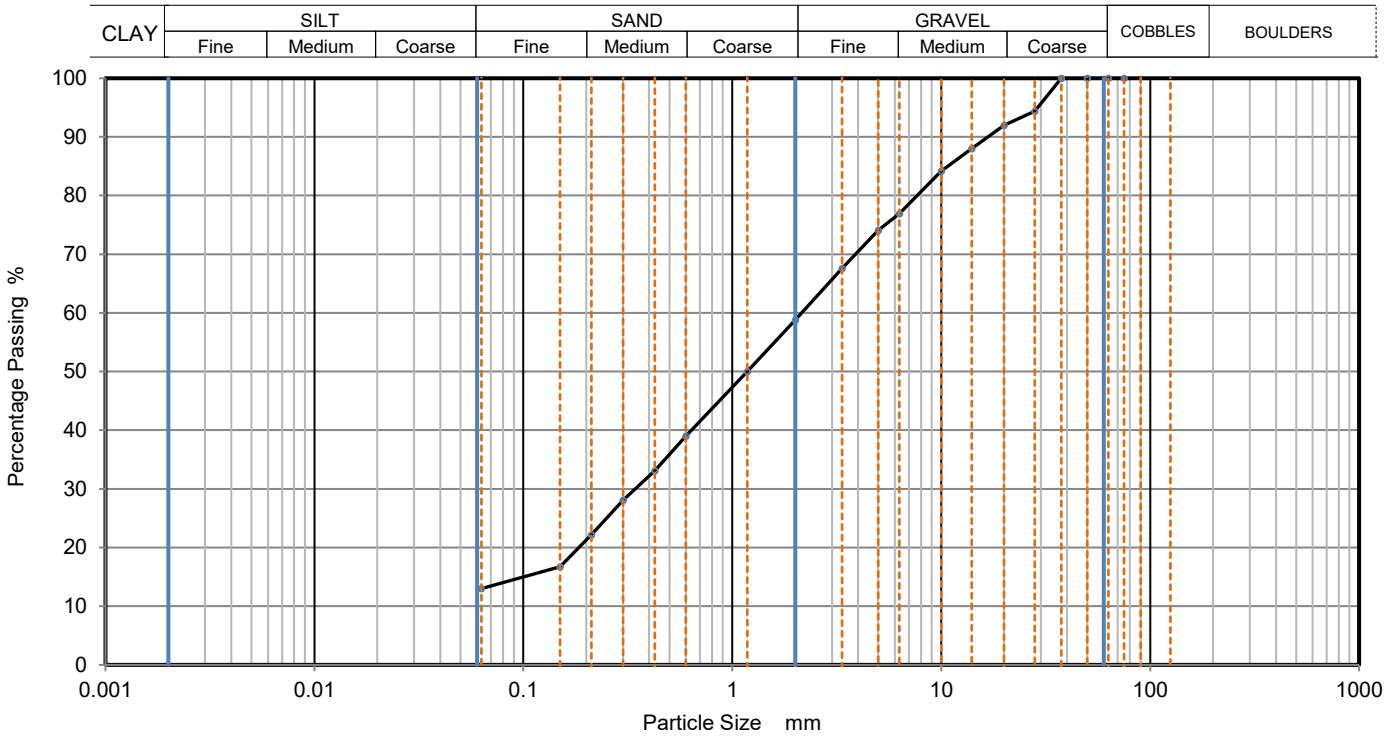
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M68
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown silty SAND and GRAVEL.			Depth, m	2.60
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080719



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	94		
20	92		
14	88		
10	84		
6.3	77		
5	74		
3.35	68		
2	59		
1.18	50		
0.6	39		
0.425	33		
0.3	28		
0.212	22		
0.15	17		
0.063	13		

Dry Mass of sample, g	834

Sample Proportions	% dry mass
Very coarse	0
Gravel	41
Sand	46
Fines <0.063mm	13

Grading Analysis		
D100	mm	
D60	mm	2.15
D30	mm	0.343
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

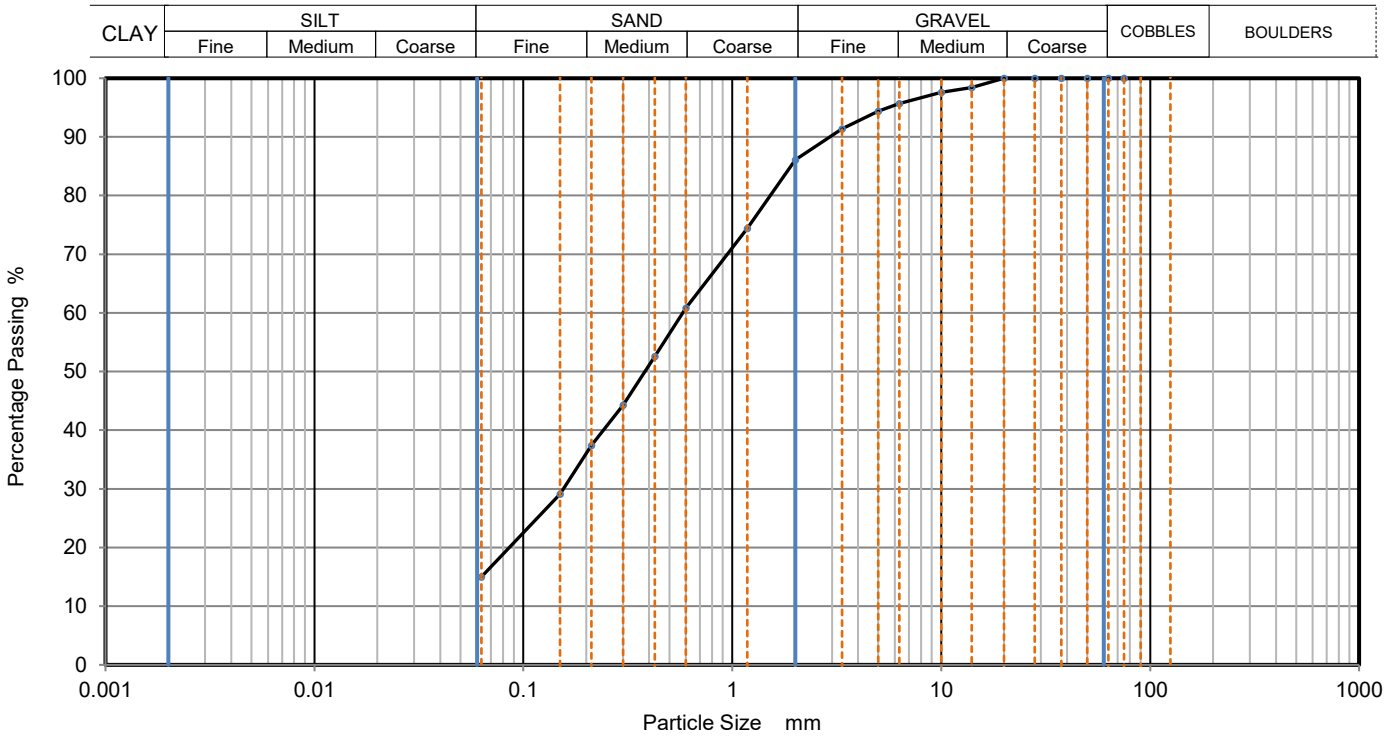
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M69
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brownish-grey gravelly silty SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080720



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	98		
6.3	96		
5	94		
3.35	91		
2	86		
1.18	74		
0.6	61		
0.425	53		
0.3	44		
0.212	37		
0.15	29		
0.063	15		

Dry Mass of sample, g	880

Sample Proportions	% dry mass
Very coarse	0
Gravel	14
Sand	71
Fines <0.063mm	15

Grading Analysis		
D100	mm	
D60	mm	0.579
D30	mm	0.156
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

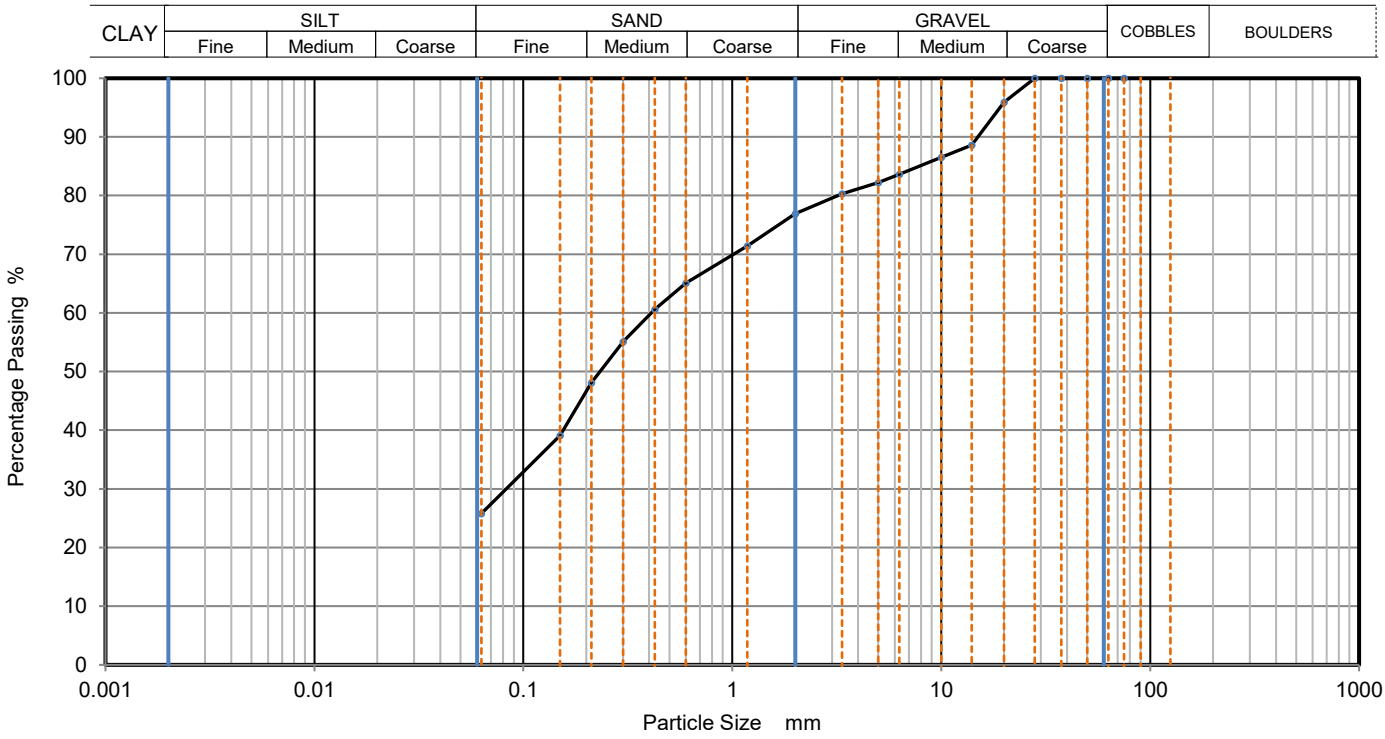
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M69
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Light brownish-grey very gravelly very silty SAND.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080721



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	96		
14	89		
10	87		
6.3	84		
5	82		
3.35	80		
2	77		
1.18	71		
0.6	65		
0.425	61		
0.3	55		
0.212	48		
0.15	39		
0.063	26		

Dry Mass of sample, g	768

Sample Proportions	% dry mass
Very coarse	0
Gravel	23
Sand	51
Fines <0.063mm	26

Grading Analysis		
D100	mm	
D60	mm	0.409
D30	mm	0.083
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

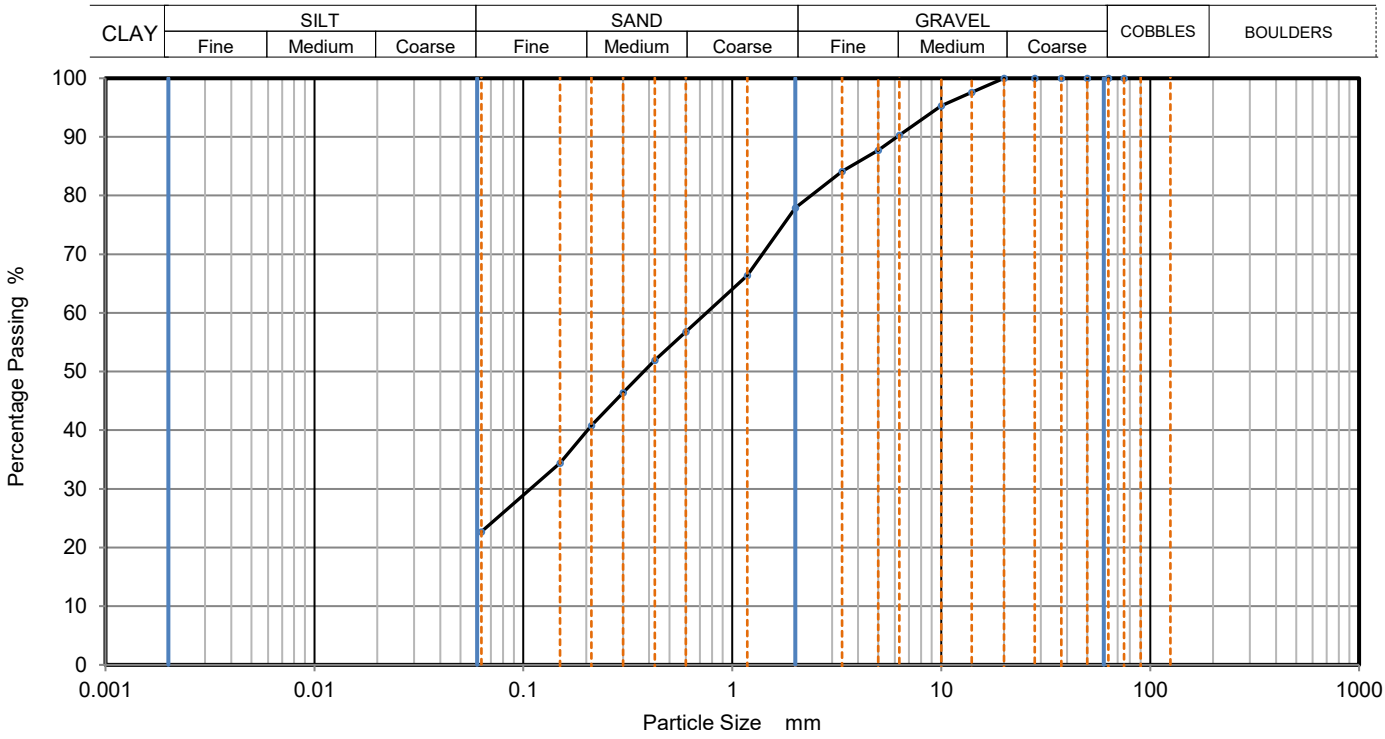
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				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M69
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Greyish-brown very gravelly very silty SAND.			Depth, m	2.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080722



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	95		
6.3	90		
5	88		
3.35	84		
2	78		
1.18	66		
0.6	57		
0.425	52		
0.3	46		
0.212	41		
0.15	34		
0.063	23		

Dry Mass of sample, g	723

Sample Proportions	% dry mass
Very coarse	0
Gravel	22
Sand	55
Fines <0.063mm	23

Grading Analysis		
D100	mm	
D60	mm	0.752
D30	mm	0.108
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

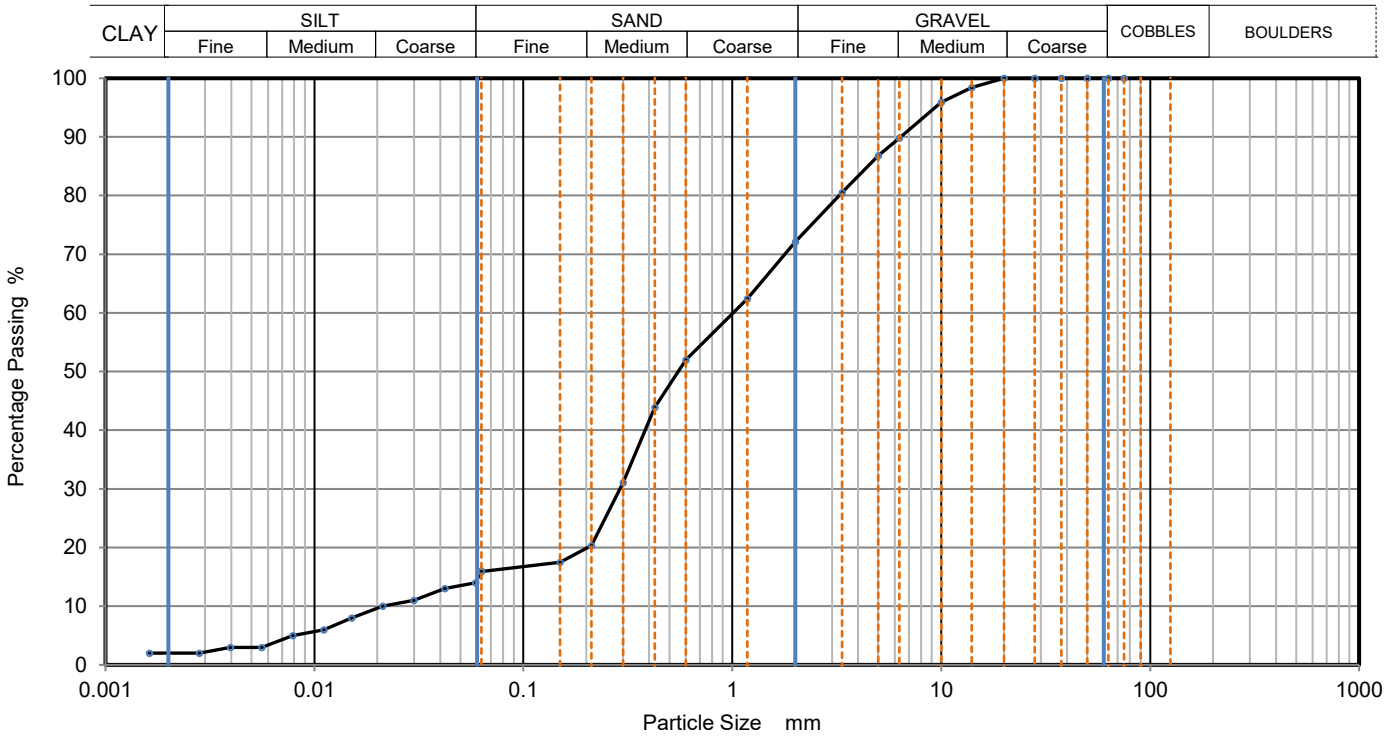
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

Job Ref	2024SO105		
Borehole/Pit No.	TP-M71		
Site Name	Lot 1, Lough Talt	Sample No.	1
Soil Description	Brown silty very gravelly coarse and medium SAND.	Depth, m	0.50
Specimen Reference		Specimen Depth: m	Sample Type: B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5	KeyLAB ID	IDL12025071443



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	16
		0.0591	14
75	100	0.0420	13
63	100	0.0299	11
50	100	0.0212	10
37.5	100	0.0151	8
28	100	0.0111	6
20	100	0.0079	5
14	98	0.0056	3
10	96	0.0040	3
6.3	90	0.0028	2
5	87	0.0016	2
3.35	81		
2	72		
1.18	62		
0.6	52	Particle density (assumed)	
0.425	44	2.65 Mg/m3	
0.3	31		
0.212	20		
0.15	18		
0.063	16		

Dry Mass of sample, g: 713

Sample Proportions	% dry mass
Very coarse	0
Gravel	28
Sand	56
Silt	14
Clay	2

Grading Analysis		
D100	mm	
D60	mm	1.01
D30	mm	0.29
D10	mm	0.0234
Uniformity Coefficient		43
Curvature Coefficient		3.5

Remarks

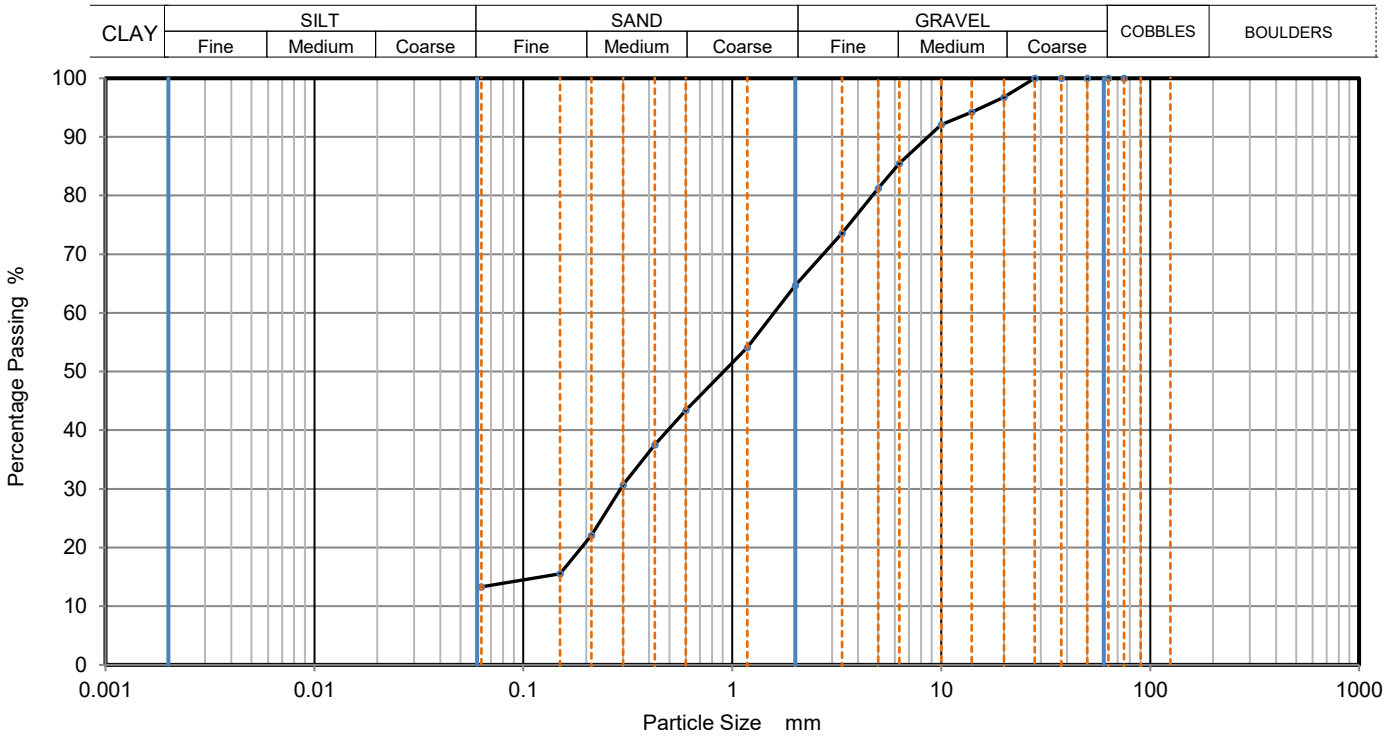
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M71
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown silty very gravelly coarse and medium SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071445



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	94		
10	92		
6.3	86		
5	81		
3.35	74		
2	65		
1.18	54		
0.6	43		
0.425	38		
0.3	31		
0.212	22		
0.15	16		
0.063	13		

Dry Mass of sample, g	734

Sample Proportions	% dry mass
Very coarse	0
Gravel	35
Sand	51
Fines <0.063mm	13

Grading Analysis		
D100	mm	
D60	mm	1.58
D30	mm	0.291
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

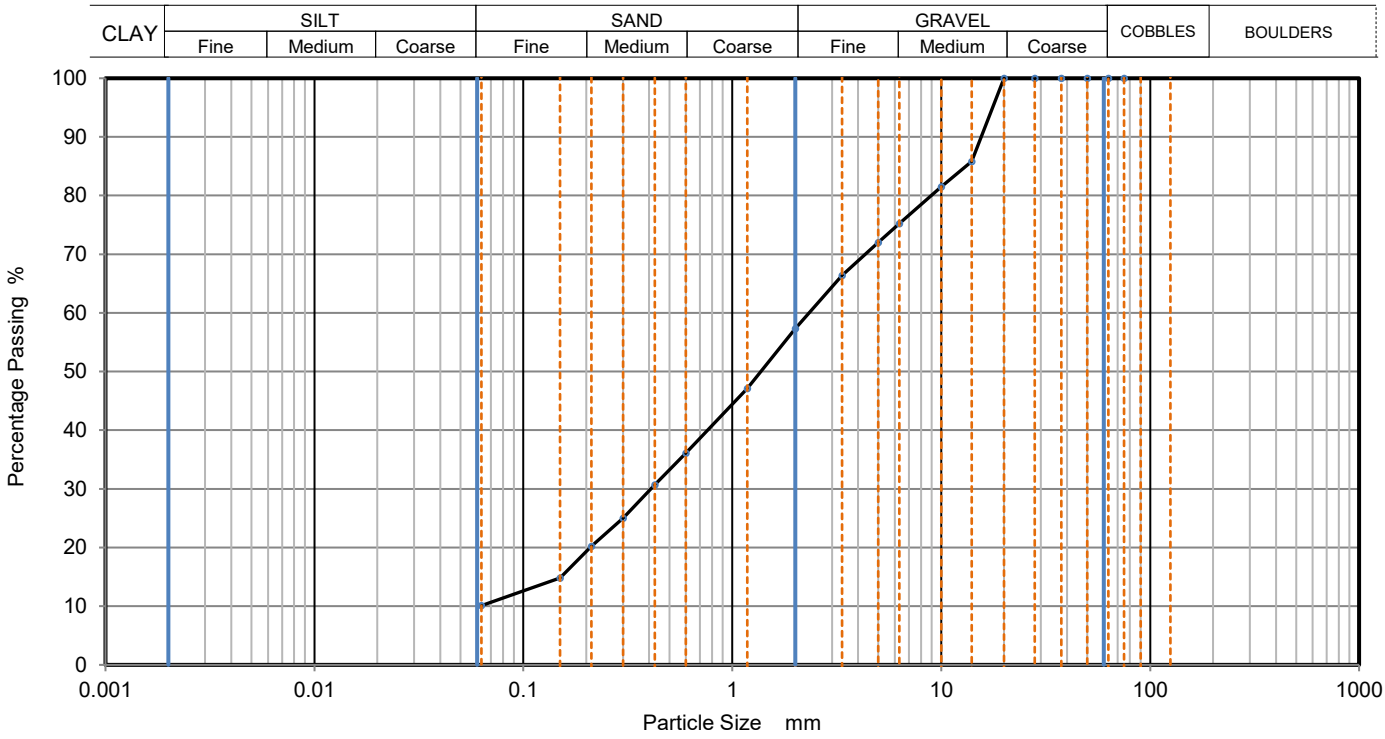
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M72
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown silty coarse SAND and medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202503310



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	86		
10	82		
6.3	75		
5	72		
3.35	66		
2	57		
1.18	47		
0.6	36		
0.425	31		
0.3	25		
0.212	20		
0.15	15		
0.063	10		

Dry Mass of sample, g	716

Sample Proportions	% dry mass
Very coarse	0
Gravel	43
Sand	47
Fines <0.063mm	10

Grading Analysis		
D100	mm	
D60	mm	2.33
D30	mm	0.407
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

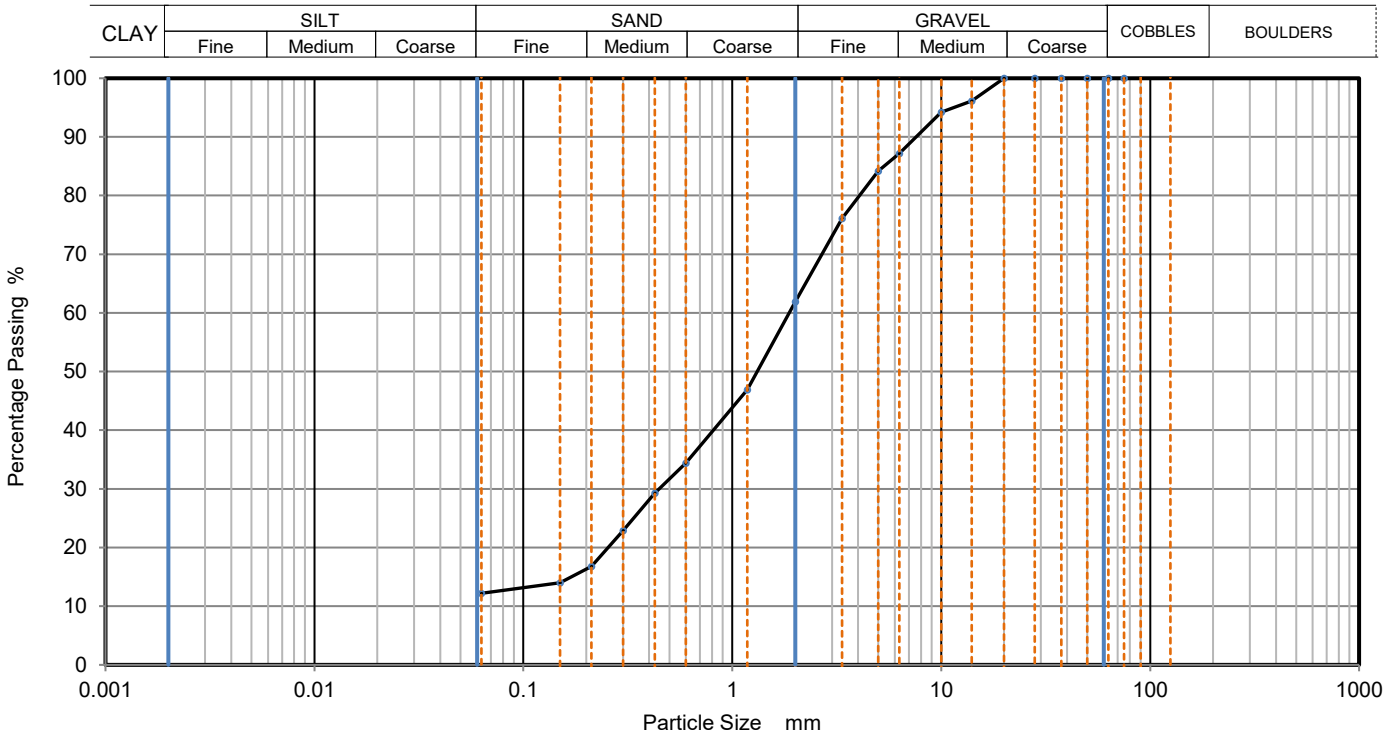
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M72
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown silty very gravelly coarse SAND. Gravel is fine.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202503312



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	96		
10	94		
6.3	87		
5	84		
3.35	76		
2	62		
1.18	47		
0.6	34		
0.425	29		
0.3	23		
0.212	17		
0.15	14		
0.063	12		

Dry Mass of sample, g	774

Sample Proportions	% dry mass
Very coarse	0
Gravel	38
Sand	50
Fines <0.063mm	12

Grading Analysis		
D100	mm	
D60	mm	1.87
D30	mm	0.445
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

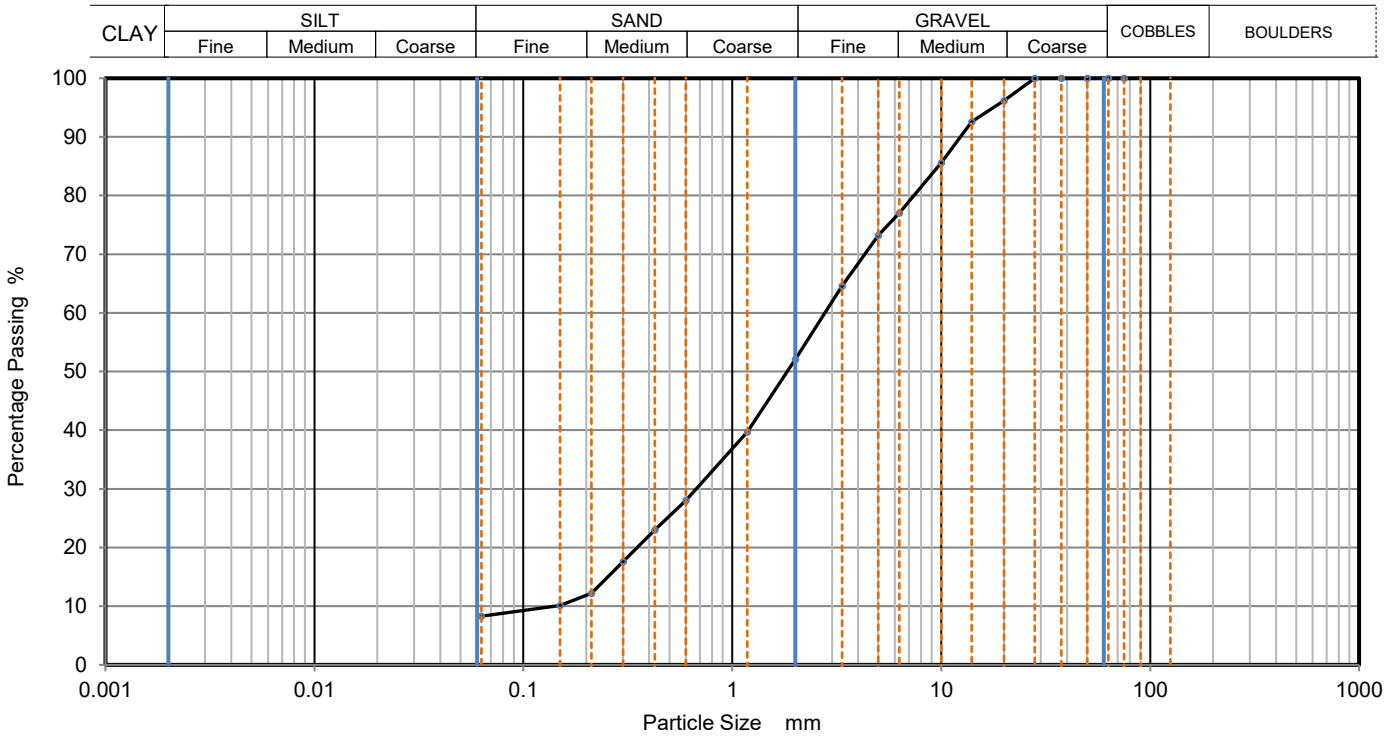
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M72
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Brown silty coarse SAND and fine GRAVEL.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202503314



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	96		
14	93		
10	86		
6.3	77		
5	73		
3.35	65		
2	52		
1.18	40		
0.6	28		
0.425	23		
0.3	18		
0.212	12		
0.15	10		
0.063	8		

Dry Mass of sample, g	925

Sample Proportions	% dry mass
Very coarse	0
Gravel	48
Sand	44
Fines <0.063mm	8

Grading Analysis		
D100	mm	
D60	mm	2.77
D30	mm	0.674
D10	mm	0.141
Uniformity Coefficient		20
Curvature Coefficient		1.2

Remarks

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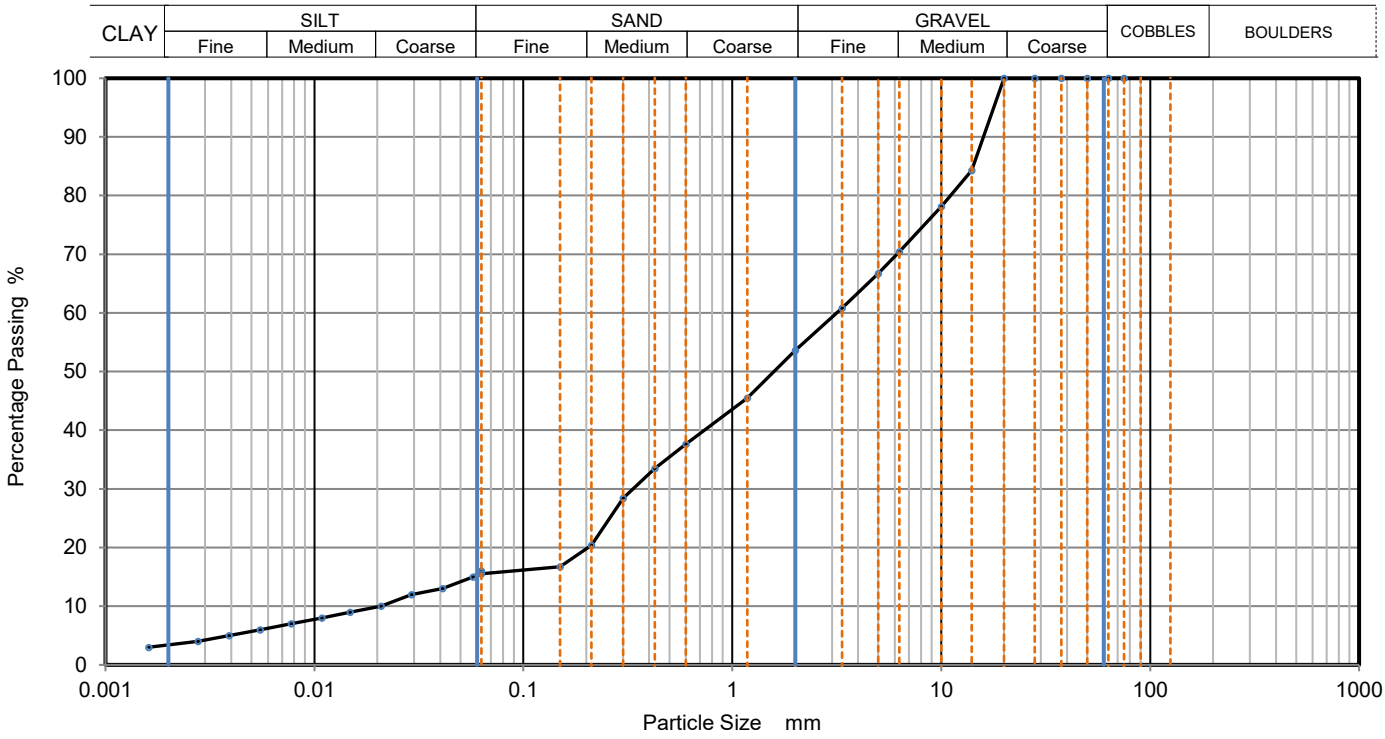
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M73
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown silty very sandy medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202503316



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	16
		0.0573	15
75	100	0.0410	13
63	100	0.0291	12
50	100	0.0208	10
37.5	100	0.0148	9
28	100	0.0109	8
20	100	0.0077	7
14	84	0.0055	6
10	78	0.0039	5
6.3	70	0.0028	4
5	67	0.0016	3
3.35	61		
2	54		
1.18	46		
0.6	38	Particle density (assumed)	
0.425	34	2.65	Mg/m3
0.3	28		
0.212	20		
0.15	17		
0.063	16		

Dry Mass of sample, g	858

Sample Proportions	% dry mass
Very coarse	0
Gravel	46
Sand	38
Silt	12
Clay	3

Grading Analysis		
D100	mm	
D60	mm	3.16
D30	mm	0.335
D10	mm	0.022
Uniformity Coefficient		140
Curvature Coefficient		1.6

Remarks

Preparation and testing in accordance with BS1377 unless noted below

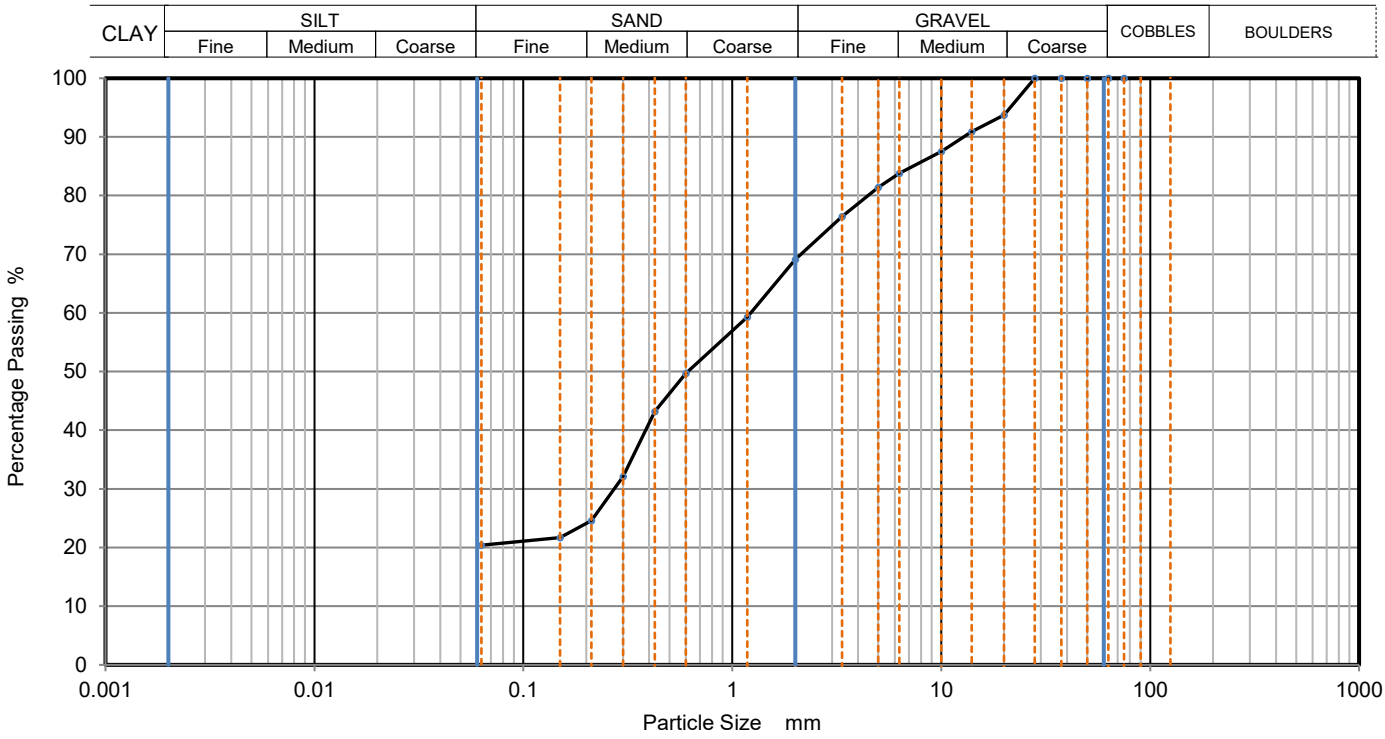
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M73
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown very silty very gravelly medium and coarse SAND.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL1202503318



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	94		
14	91		
10	88		
6.3	84		
5	81		
3.35	76		
2	69		
1.18	59		
0.6	50		
0.425	43		
0.3	32		
0.212	25		
0.15	22		
0.063	20		

Dry Mass of sample, g	873

Sample Proportions	% dry mass
Very coarse	0
Gravel	31
Sand	49
Fines <0.063mm	20

Grading Analysis		
D100	mm	
D60	mm	1.23
D30	mm	0.273
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

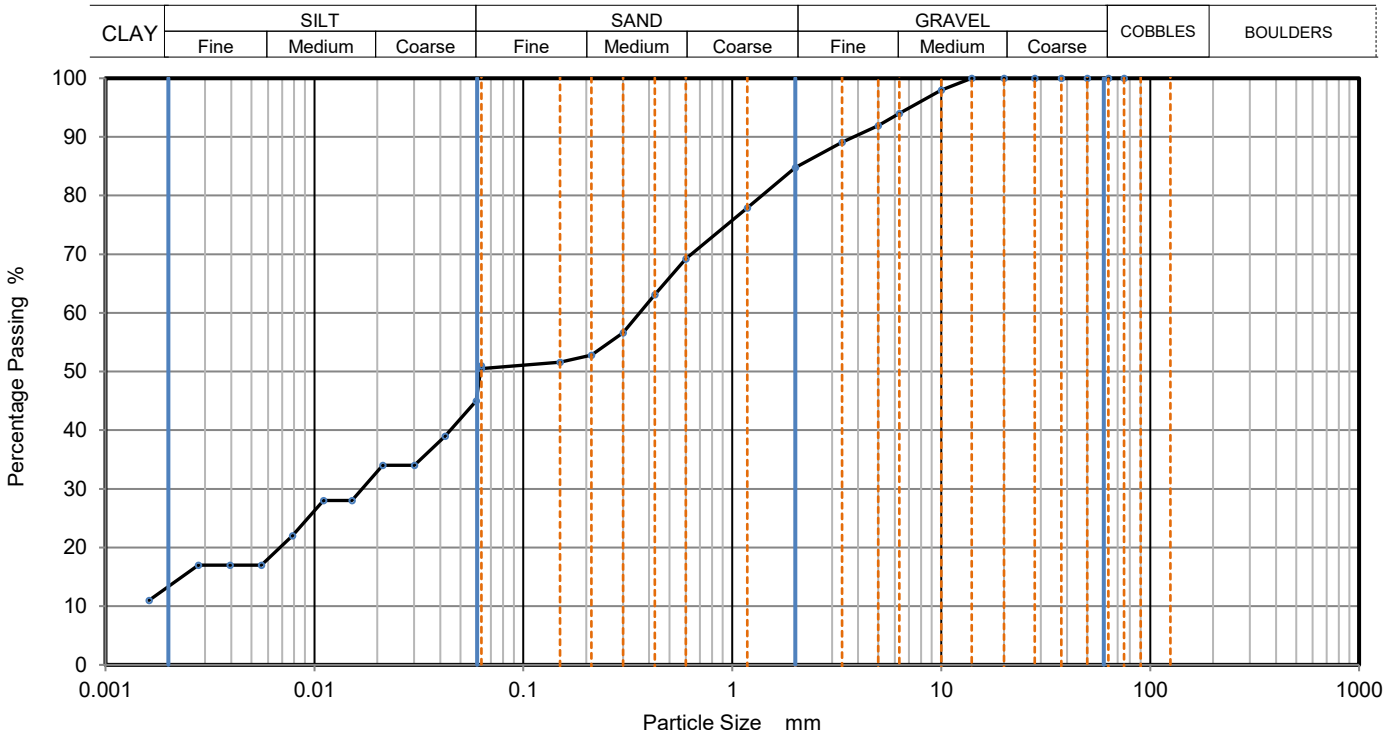
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M74
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly gravelly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025033110



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	51
		0.0595	45
75	100	0.0423	39
63	100	0.0301	34
50	100	0.0213	34
37.5	100	0.0151	28
28	100	0.0110	28
20	100	0.0078	22
14	100	0.0056	17
10	98	0.0039	17
6.3	94	0.0028	17
5	92	0.0016	11
3.35	89		
2	85		
1.18	78		
0.6	69	Particle density (assumed)	
0.425	63	2.65	Mg/m3
0.3	57		
0.212	53		
0.15	52		
0.063	51		

Dry Mass of sample, g: 399

Sample Proportions	% dry mass
Very coarse	0
Gravel	15
Sand	34
Silt	37
Clay	13

Grading Analysis		
D100	mm	
D60	mm	0.359
D30	mm	0.017
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

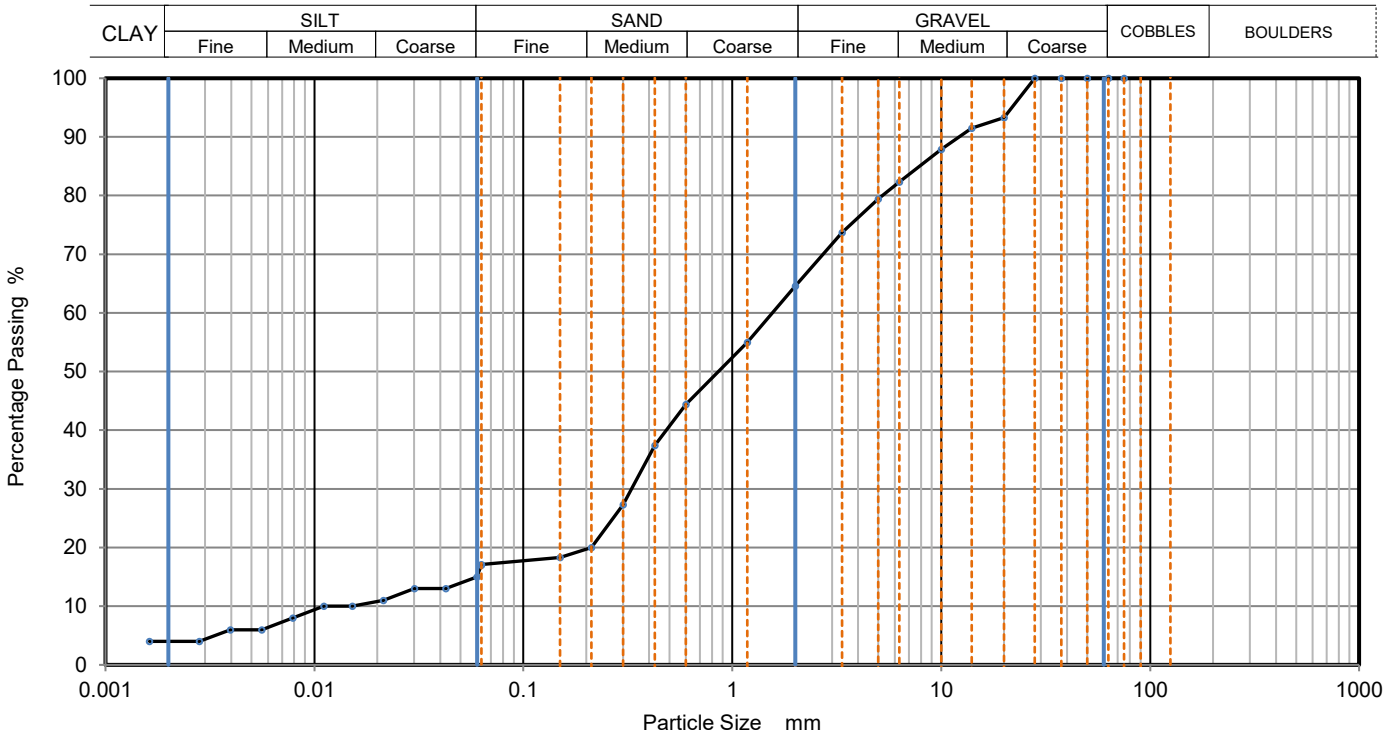
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M74
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown silty very gravelly medium and coarse SAND.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025033112



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	17
		0.0598	15
75	100	0.0425	13
63	100	0.0300	13
50	100	0.0214	11
37.5	100	0.0152	10
28	100	0.0111	10
20	93	0.0079	8
14	92	0.0056	6
10	88	0.0040	6
6.3	82	0.0028	4
5	79	0.0016	4
3.35	74		
2	65		
1.18	55		
0.6	44	Particle density (assumed)	
0.425	37	2.65	Mg/m3
0.3	27		
0.212	20		
0.15	18		
0.063	17		

Dry Mass of sample, g	949

Sample Proportions	% dry mass
Very coarse	0
Gravel	35
Sand	48
Silt	13
Clay	4

Grading Analysis		
D100	mm	
D60	mm	1.56
D30	mm	0.329
D10	mm	0.0166
Uniformity Coefficient		94
Curvature Coefficient		4.2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

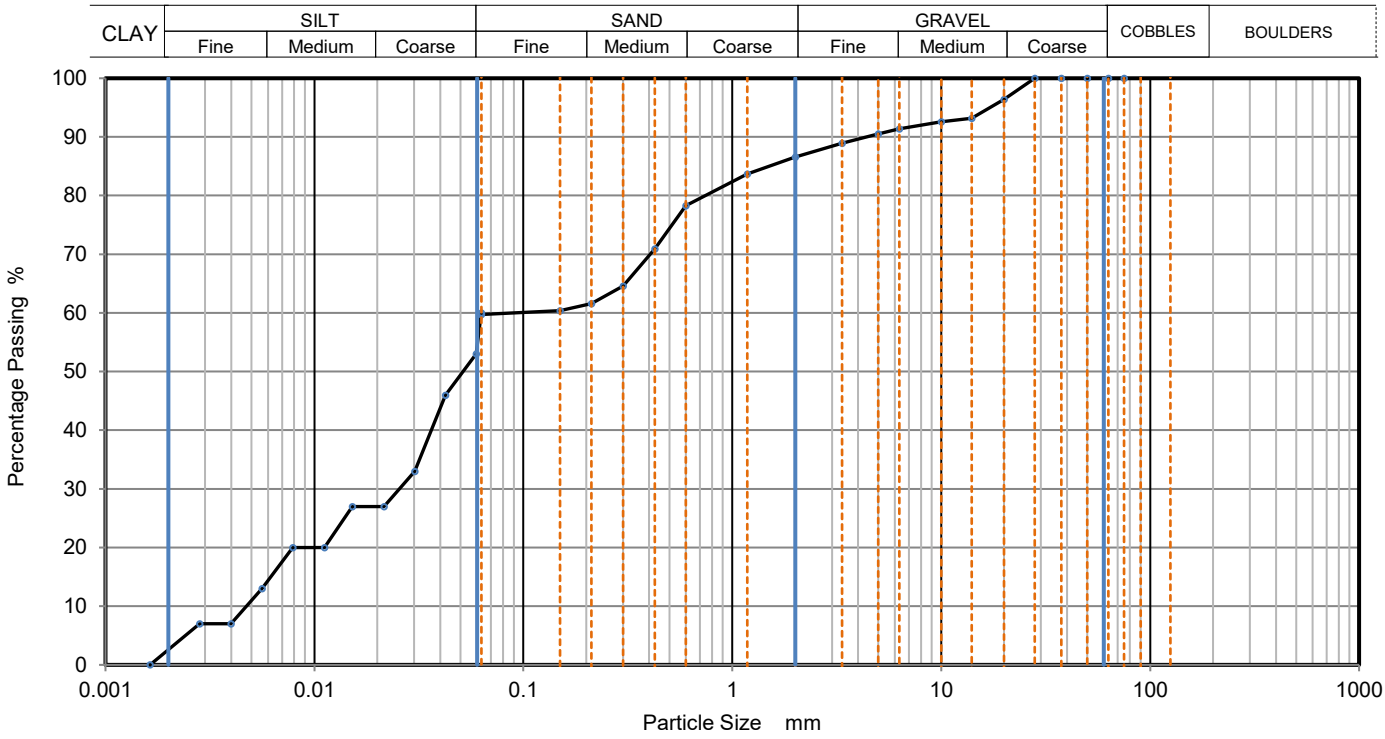
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M75
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Black (peaty) slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250311105



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	60
		0.0596	53
75	100	0.0423	46
63	100	0.0302	33
50	100	0.0215	27
37.5	100	0.0152	27
28	100	0.0112	20
20	96	0.0079	20
14	93	0.0056	13
10	93	0.0040	7
6.3	91	0.0028	7
5	91	0.0016	0
3.35	89		
2	87		
1.18	84		
0.6	78	Particle density (assumed)	
0.425	71	2.65 Mg/m3	
0.3	65		
0.212	62		
0.15	60		
0.063	60		

Dry Mass of sample, g: 621

Sample Proportions	% dry mass
Very coarse	0
Gravel	13
Sand	27
Silt	57
Clay	3

Grading Analysis		
D100	mm	
D60	mm	0.092
D30	mm	0.0257
D10	mm	0.00474
Uniformity Coefficient		19
Curvature Coefficient		1.5

Remarks

Preparation and testing in accordance with BS1377 unless noted below

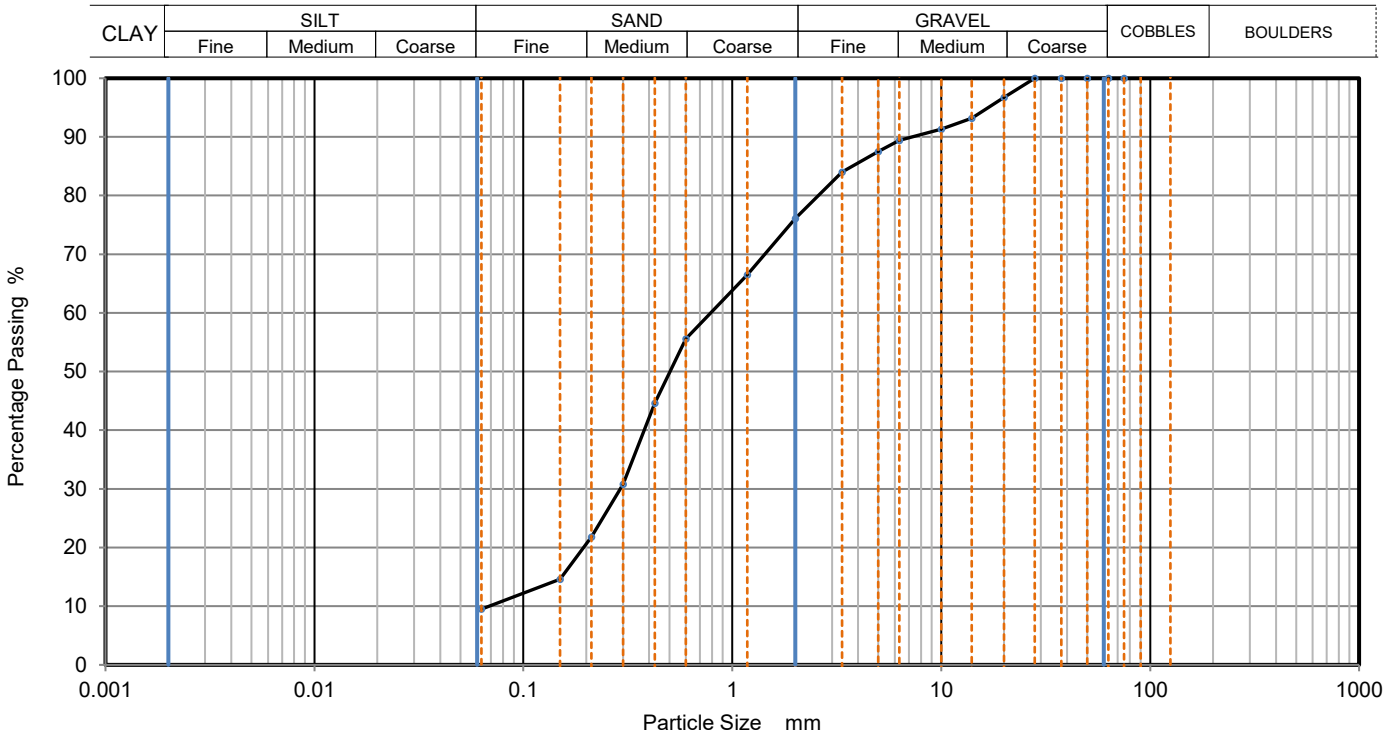
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M75
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brwon silty very gravelly medium and coarse SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250311107



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	93		
10	91		
6.3	89		
5	88		
3.35	84		
2	76		
1.18	67		
0.6	56		
0.425	45		
0.3	31		
0.212	22		
0.15	15		
0.063	10		

Dry Mass of sample, g	711

Sample Proportions	% dry mass
Very coarse	0
Gravel	24
Sand	67
Fines <0.063mm	10

Grading Analysis		
D100	mm	
D60	mm	0.789
D30	mm	0.29
D10	mm	0.0683
Uniformity Coefficient		12
Curvature Coefficient		1.6

Remarks

Preparation and testing in accordance with BS1377 unless noted below

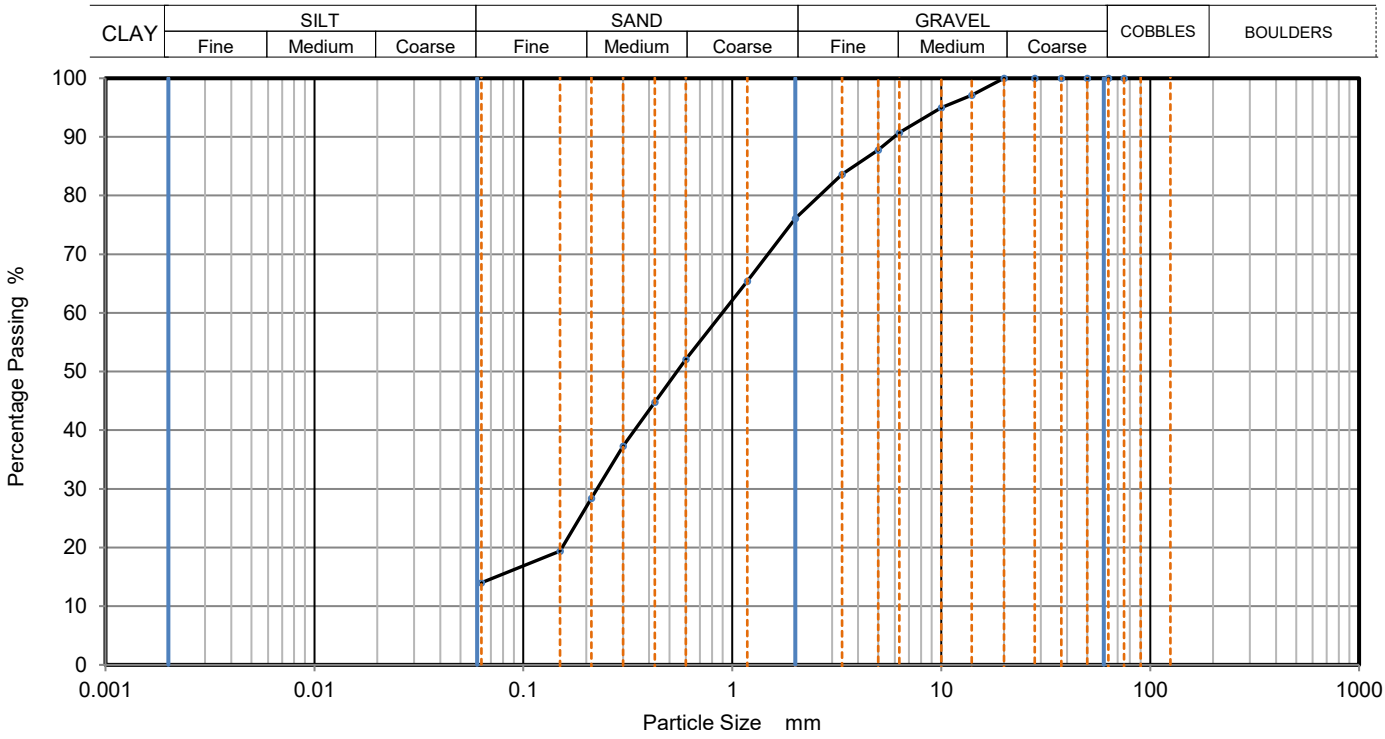
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M76
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown silty very gravelly coarse and medium SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250311111



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	97		
10	95		
6.3	91		
5	88		
3.35	84		
2	76		
1.18	65		
0.6	52		
0.425	45		
0.3	37		
0.212	28		
0.15	19		
0.063	14		

Dry Mass of sample, g	680

Sample Proportions	% dry mass
Very coarse	0
Gravel	24
Sand	62
Fines <0.063mm	14

Grading Analysis		
D100	mm	
D60	mm	0.895
D30	mm	0.226
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

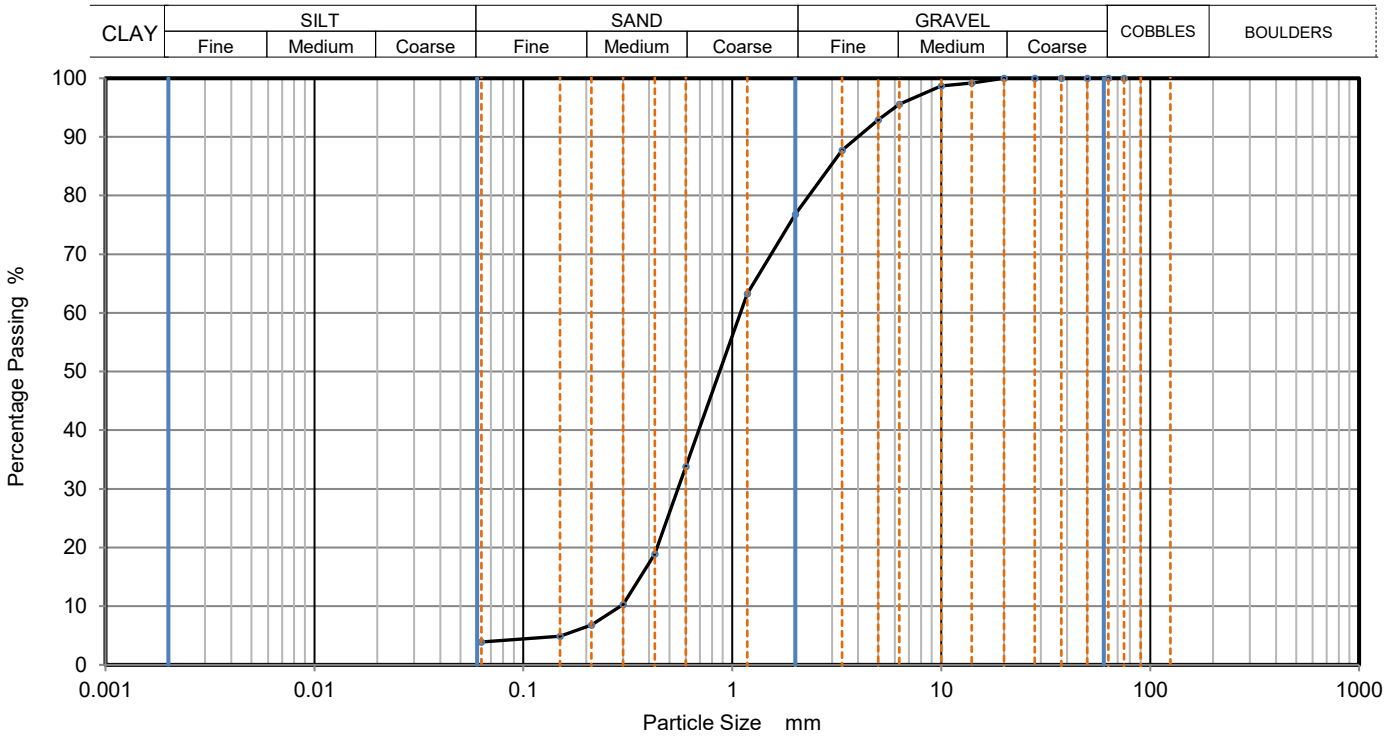
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M76
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown slightly silty very gravelly coarse SAND. Gravel is fine.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250311113



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	99		
6.3	96		
5	93		
3.35	88		
2	77		
1.18	63		
0.6	34		
0.425	19		
0.3	10		
0.212	7		
0.15	5		
0.063	4		

Dry Mass of sample, g	715

Sample Proportions	% dry mass
Very coarse	0
Gravel	23
Sand	73
Fines <0.063mm	4

Grading Analysis		
D100	mm	
D60	mm	1.09
D30	mm	0.549
D10	mm	0.293
Uniformity Coefficient		3.7
Curvature Coefficient		0.94

Remarks

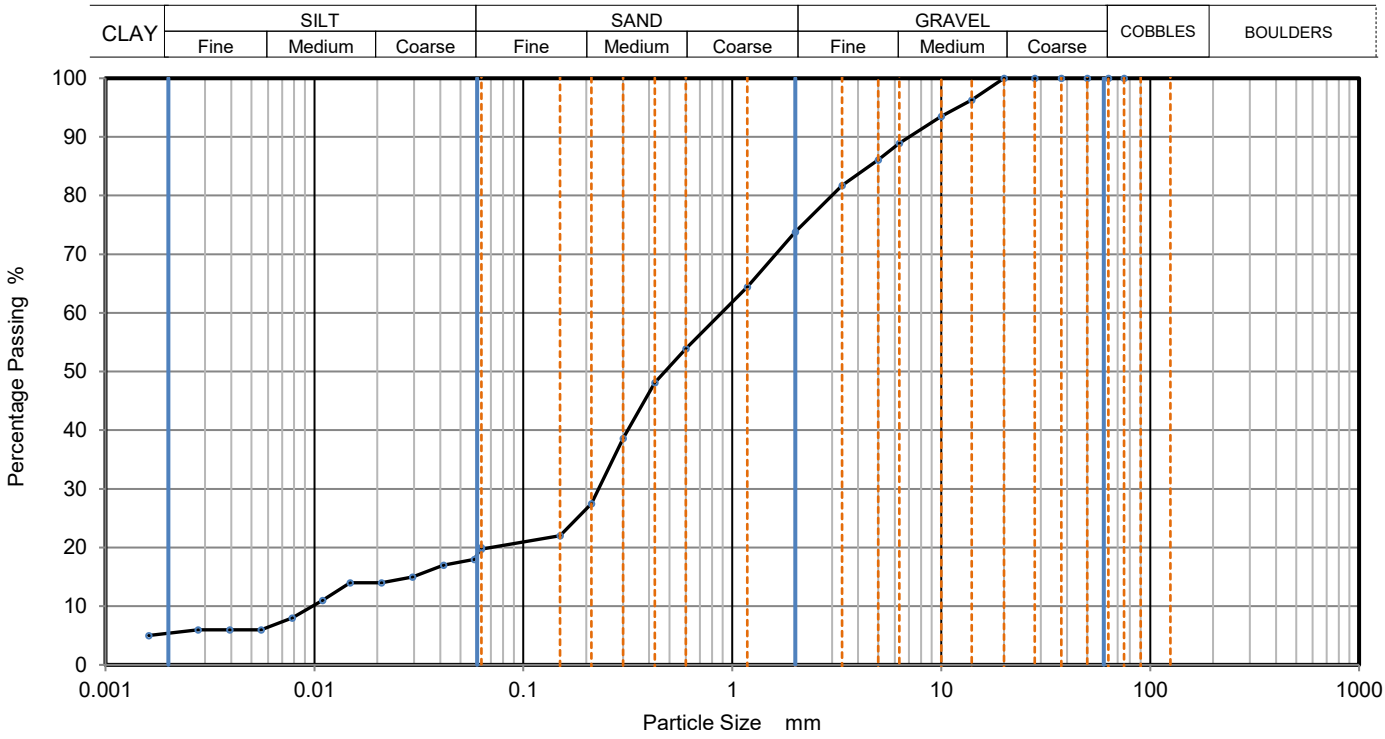
Preparation and testing in accordance with BS1377 unless noted below

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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M77
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown very silty very gravelly medium and coarse SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250311115



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	20
		0.0583	18
75	100	0.0414	17
63	100	0.0295	15
50	100	0.0209	14
37.5	100	0.0148	14
28	100	0.0109	11
20	100	0.0078	8
14	96	0.0056	6
10	94	0.0039	6
6.3	89	0.0028	6
5	86	0.0016	5
3.35	82		
2	74		
1.18	64		
0.6	54	Particle density (assumed)	
0.425	48	2.65 Mg/m3	
0.3	39		
0.212	28		
0.15	22		
0.063	20		

Dry Mass of sample, g	706

Sample Proportions	% dry mass
Very coarse	0
Gravel	26
Sand	54
Silt	15
Clay	5

Grading Analysis		
D100	mm	
D60	mm	0.891
D30	mm	0.229
D10	mm	0.0102
Uniformity Coefficient		87
Curvature Coefficient		5.8

Remarks

Preparation and testing in accordance with BS1377 unless noted below

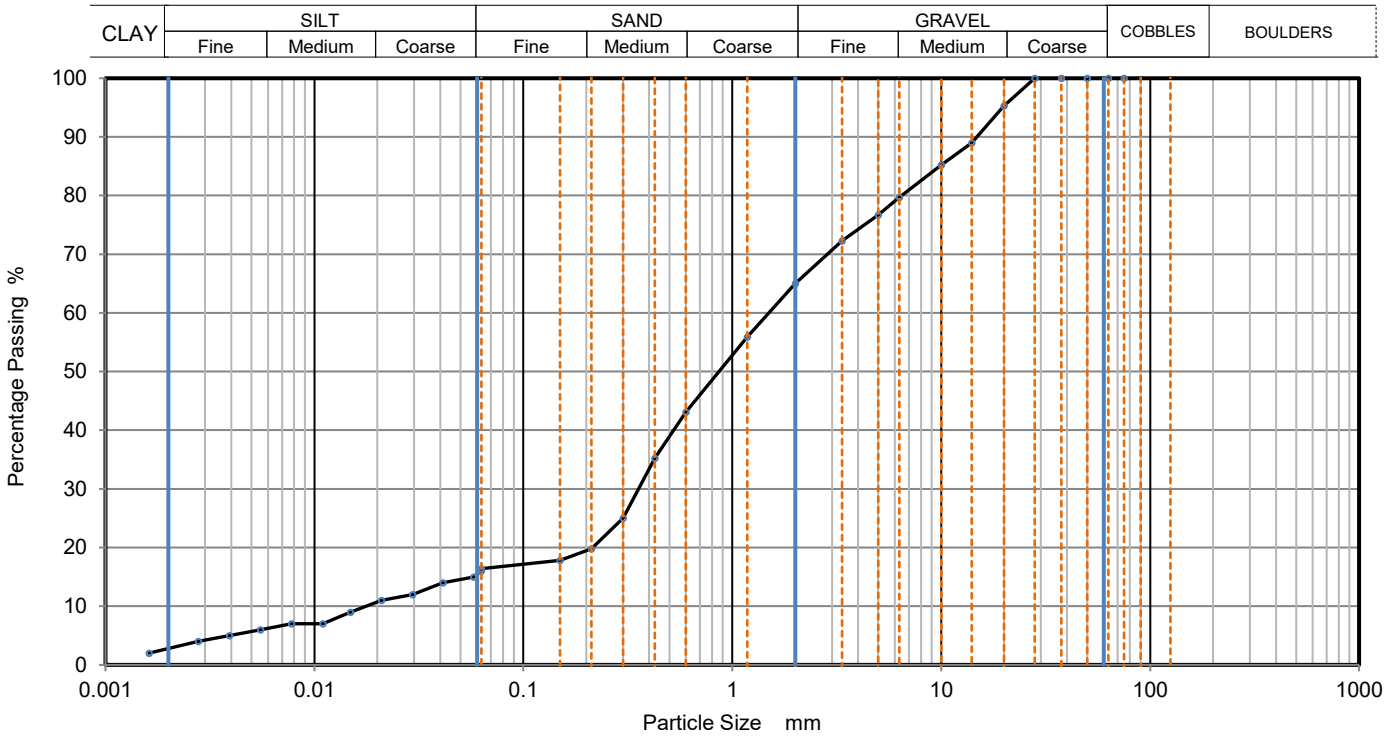
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

Job Ref	2024SO105		
Borehole/Pit No.	TP-M77		
Site Name	Lot 1, Lough Talt	Sample No.	3
Soil Description	Brown silty very gravelly medium and coarse SAND.	Depth, m	1.50
Specimen Reference		Specimen Depth	m
Sample Type	B		
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5	KeyLAB ID	IDL120250311117



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	16
		0.0579	15
75	100	0.0412	14
63	100	0.0294	12
50	100	0.0209	11
37.5	100	0.0149	9
28	100	0.0110	7
20	95	0.0078	7
14	89	0.0055	6
10	85	0.0039	5
6.3	80	0.0028	4
5	77	0.0016	2
3.35	72		
2	65		
1.18	56		
0.6	43	Particle density (assumed)	
0.425	35	2.65 Mg/m3	
0.3	25		
0.212	20		
0.15	18		
0.063	16		

Dry Mass of sample, g	733

Sample Proportions	% dry mass
Very coarse	0
Gravel	35
Sand	49
Silt	14
Clay	3

Grading Analysis		
D100	mm	
D60	mm	1.5
D30	mm	0.356
D10	mm	0.0179
Uniformity Coefficient		84
Curvature Coefficient		4.7

Remarks

Preparation and testing in accordance with BS1377 unless noted below

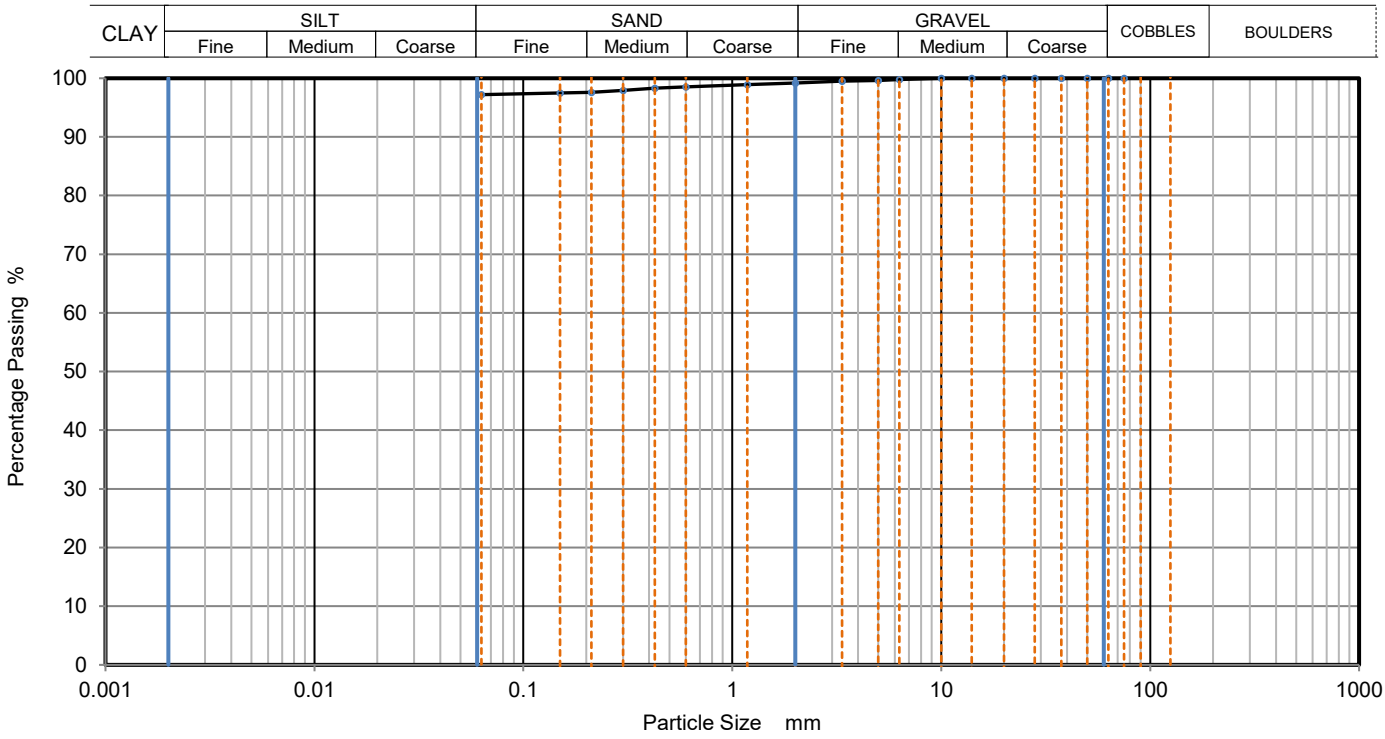
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M79
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown and black PEAT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071530



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	99		
1.18	99		
0.6	99	Particle density	(assumed)
0.425	98	2.65	Mg/m3
0.3	98		
0.212	98		
0.15	98		
0.063	97		

Dry Mass of sample, g	850

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	2
Fines <0.063mm	97

Grading Analysis		
D100	mm	
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

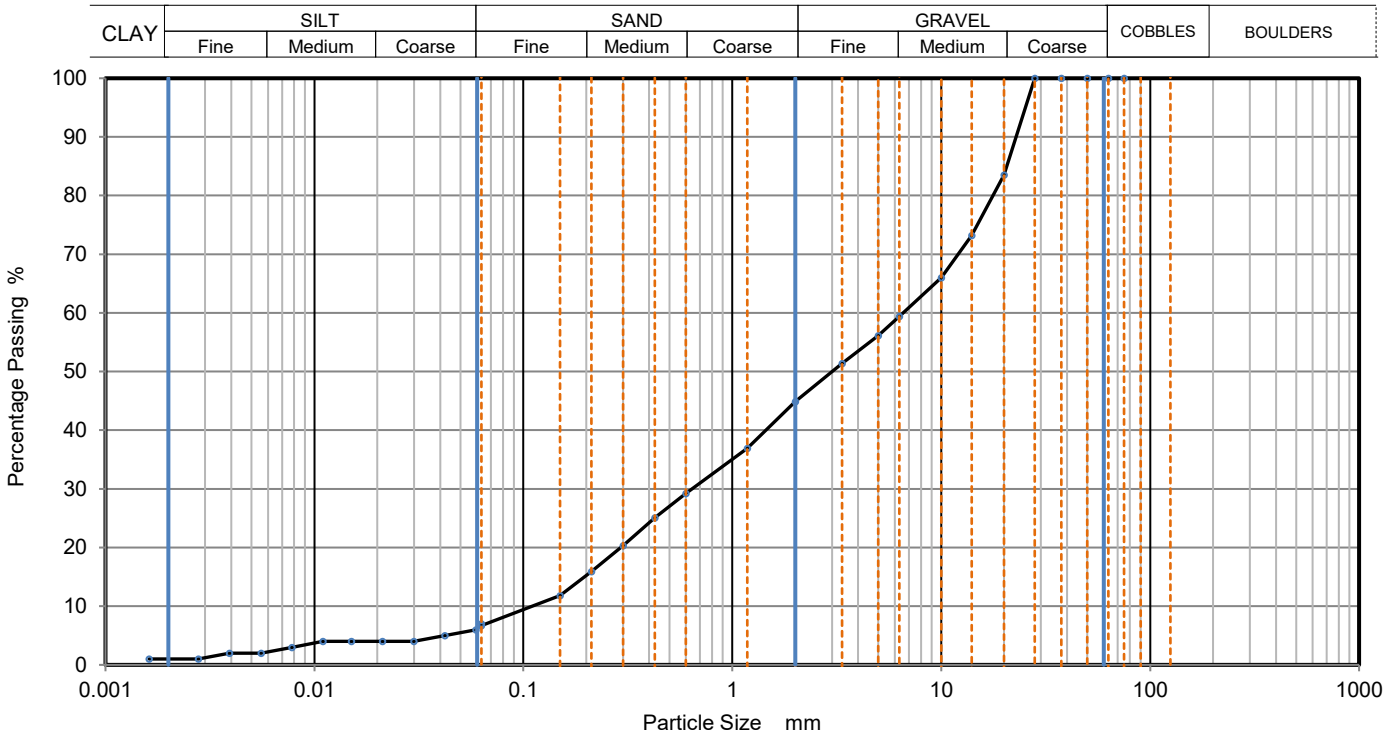
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**	Job Ref	**2024SO105**
		Borehole/Pit No.	TP-M80
Site Name	Lot 1, Lough Talt	Sample No.	1
Soil Description	Brown silty very sandy medium GRAVEL.	Depth, m	0.40
Specimen Reference	Specimen Depth: m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5	KeyLAB ID	IDL12025071535



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	7
		0.0592	6
75	100	0.0421	5
63	100	0.0299	4
50	100	0.0212	4
37.5	100	0.0150	4
28	100	0.0110	4
20	84	0.0078	3
14	73	0.0055	2
10	66	0.0039	2
6.3	59	0.0028	1
5	56	0.0016	1
3.35	51		
2	45		
1.18	37		
0.6	29	Particle density (assumed)	
0.425	25	2.65 Mg/m3	
0.3	20		
0.212	16		
0.15	12		
0.063	7		

Dry Mass of sample, g	717

Sample Proportions	% dry mass
Very coarse	0
Gravel	55
Sand	38
Silt	6
Clay	1

Grading Analysis		
D100	mm	
D60	mm	6.57
D30	mm	0.643
D10	mm	0.111
Uniformity Coefficient		59
Curvature Coefficient		0.57

Remarks

Preparation and testing in accordance with BS1377 unless noted below

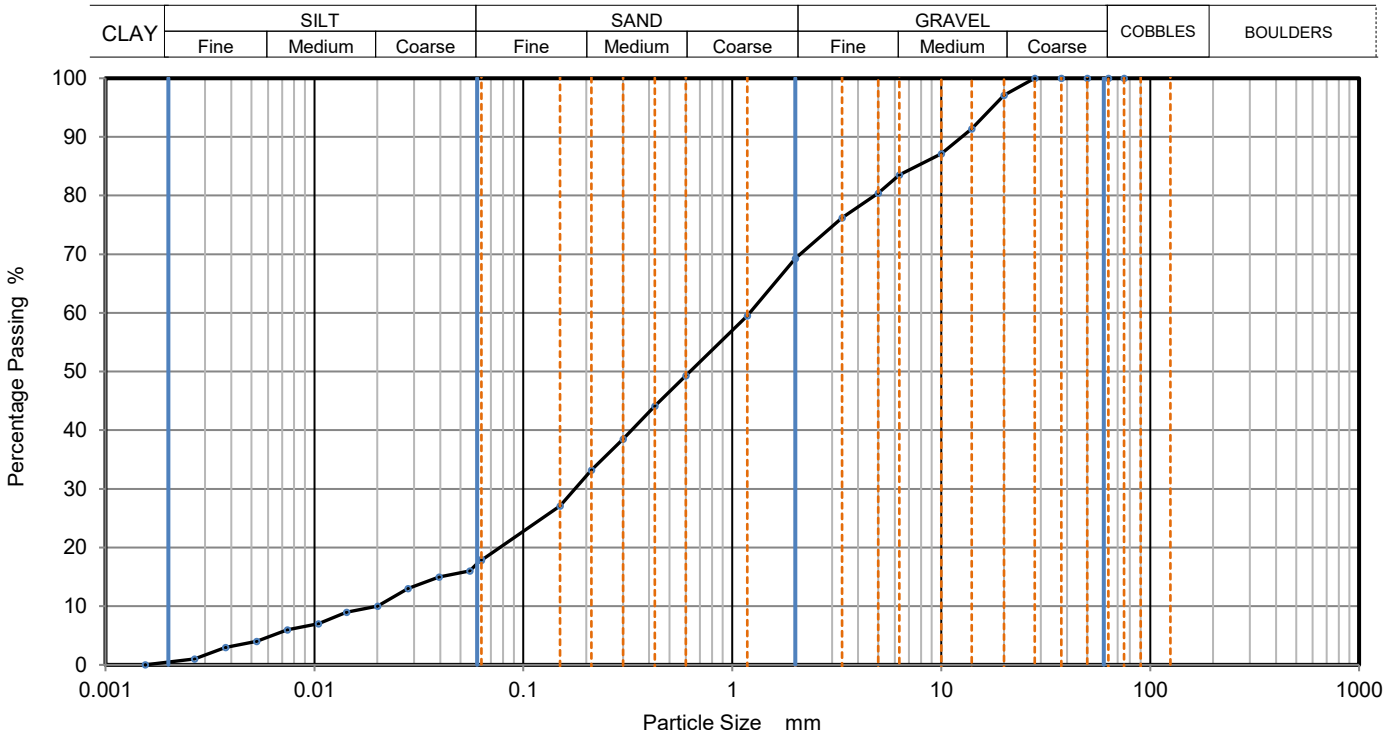
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M80
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Light brown silty very gravelly SAND.			Depth, m	3.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071539



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	18
		0.0554	16
75	100	0.0394	15
63	100	0.0280	13
50	100	0.0200	10
37.5	100	0.0142	9
28	100	0.0105	7
20	97	0.0074	6
14	91	0.0053	4
10	87	0.0038	3
6.3	84	0.0027	1
5	80	0.0015	0
3.35	76		
2	69		
1.18	60		
0.6	49	Particle density (assumed)	
0.425	44	2.65	Mg/m3
0.3	39		
0.212	33		
0.15	27		
0.063	18		

Dry Mass of sample, g: 708

Sample Proportions	% dry mass
Very coarse	0
Gravel	31
Sand	52
Silt	17
Clay	1

Grading Analysis		
D100	mm	
D60	mm	1.22
D30	mm	0.177
D10	mm	0.0183
Uniformity Coefficient		66
Curvature Coefficient		1.4

Remarks

Preparation and testing in accordance with BS1377 unless noted below

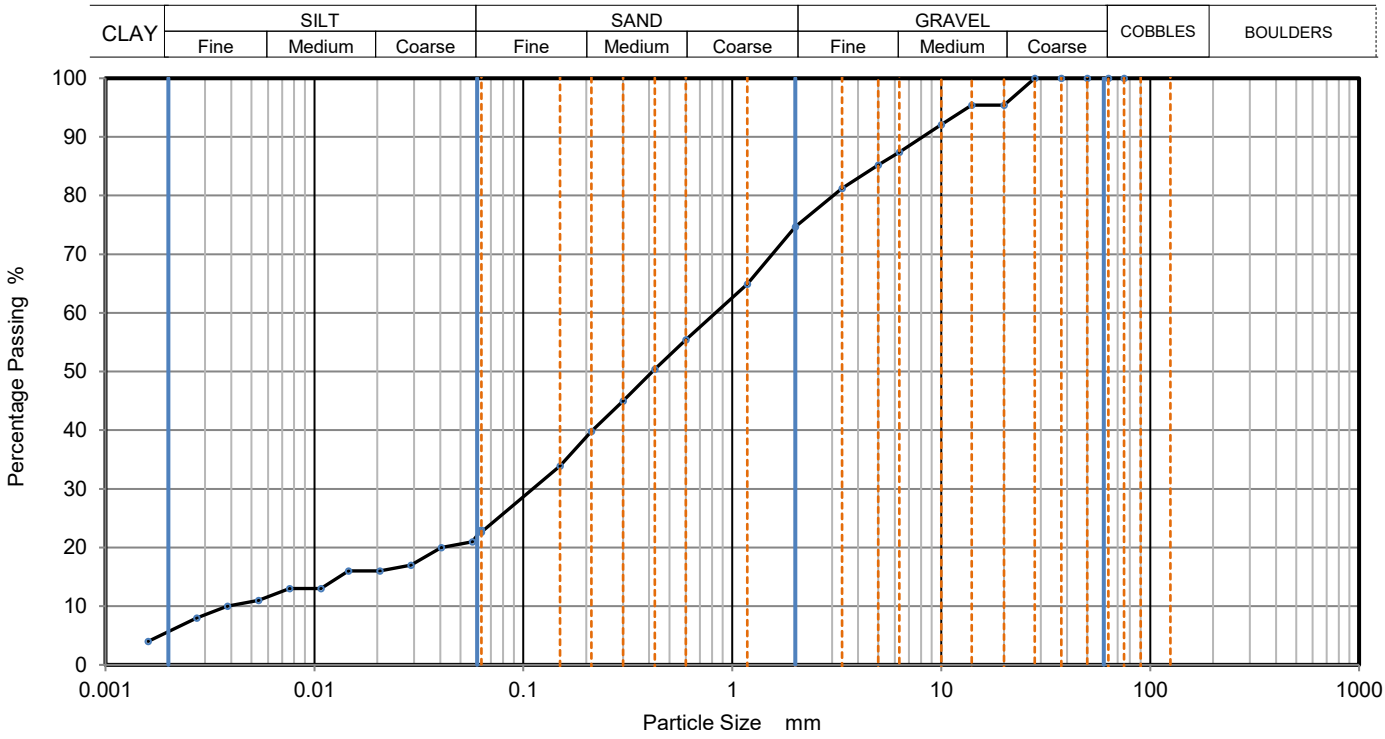
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M81
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown very silty very gravelly SAND.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071543



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	23
		0.0570	21
75	100	0.0405	20
63	100	0.0290	17
50	100	0.0206	16
37.5	100	0.0146	16
28	100	0.0108	13
20	95	0.0076	13
14	95	0.0054	11
10	92	0.0038	10
6.3	87	0.0027	8
5	85	0.0016	4
3.35	81		
2	75		
1.18	65		
0.6	55	Particle density (assumed)	
0.425	50	2.65 Mg/m3	
0.3	45		
0.212	40		
0.15	34		
0.063	23		

Dry Mass of sample, g	682

Sample Proportions	% dry mass
Very coarse	0
Gravel	25
Sand	52
Silt	17
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.831
D30	mm	0.111
D10	mm	0.00395
Uniformity Coefficient		210
Curvature Coefficient		3.8

Remarks

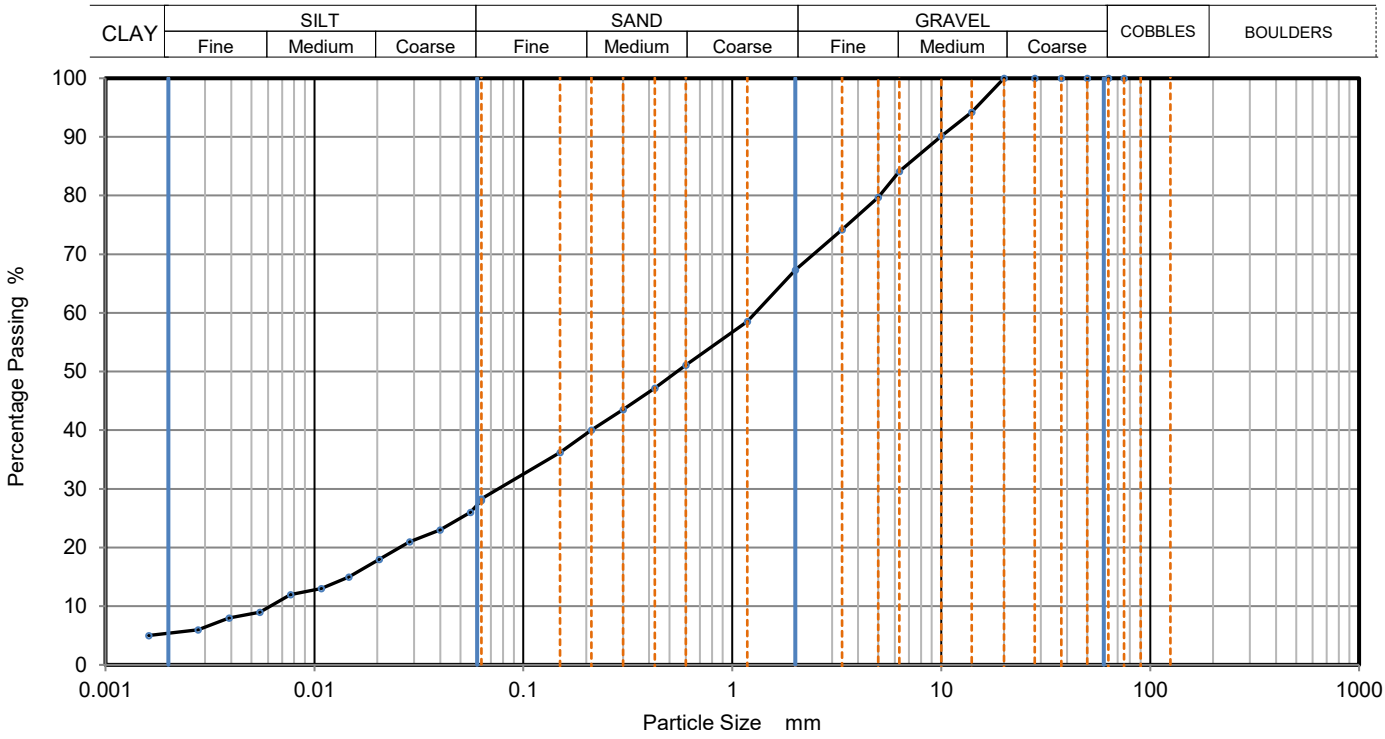
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M82
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown very silty SAND and GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071547



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	28
		0.0558	26
75	100	0.0400	23
63	100	0.0286	21
50	100	0.0205	18
37.5	100	0.0146	15
28	100	0.0108	13
20	100	0.0077	12
14	94	0.0055	9
10	90	0.0039	8
6.3	84	0.0028	6
5	80	0.0016	5
3.35	74		
2	67		
1.18	59		
0.6	51	Particle density (assumed)	
0.425	47	2.65 Mg/m3	
0.3	44		
0.212	40		
0.15	36		
0.063	28		

Dry Mass of sample, g	730

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	39
Silt	23
Clay	6

Grading Analysis		
D100	mm	
D60	mm	1.29
D30	mm	0.076
D10	mm	0.00625
Uniformity Coefficient		210
Curvature Coefficient		0.72

Remarks

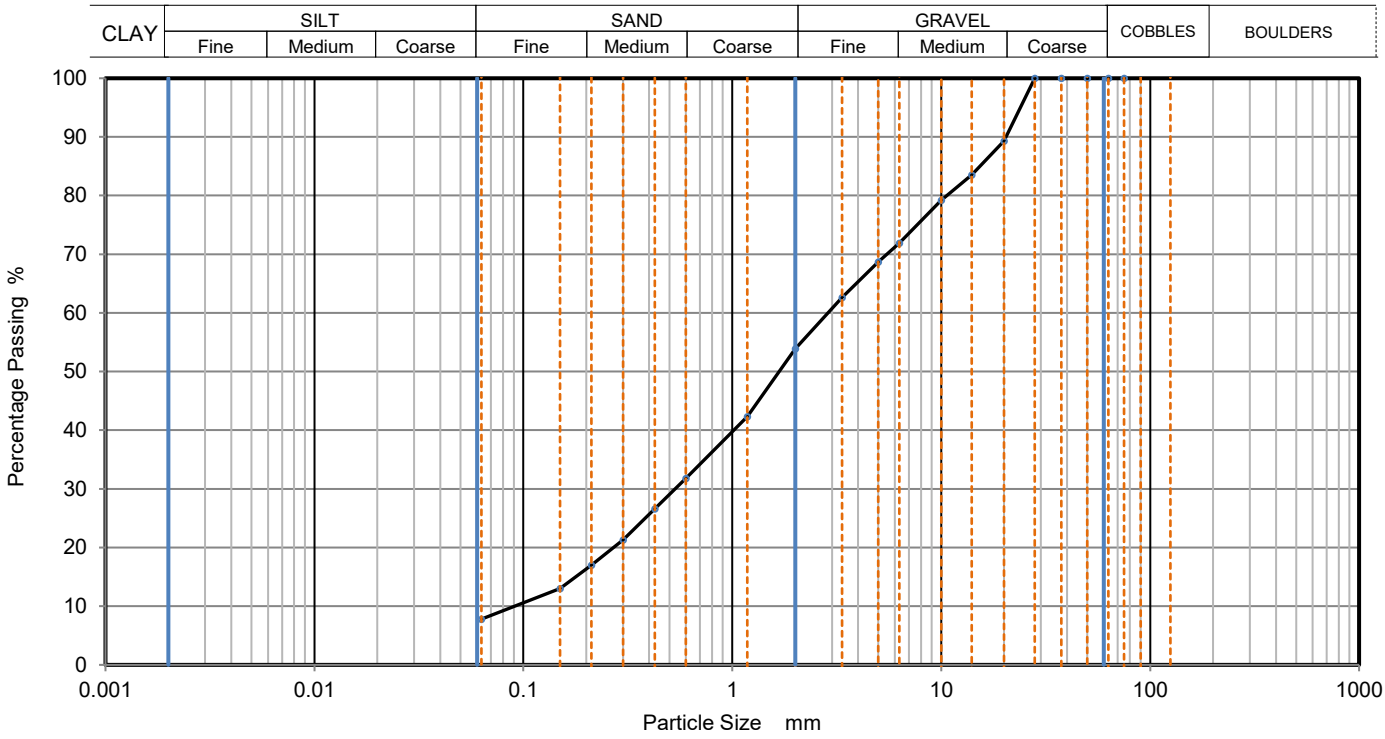
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M83
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown silty SAND and GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071550



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	89		
14	84		
10	79		
6.3	72		
5	69		
3.35	63		
2	54		
1.18	42		
0.6	32		
0.425	27		
0.3	21		
0.212	17		
0.15	13		
0.063	8		

Dry Mass of sample, g	657

Sample Proportions	% dry mass
Very coarse	0
Gravel	46
Sand	46
Fines <0.063mm	8

Grading Analysis		
D100	mm	
D60	mm	2.87
D30	mm	0.533
D10	mm	0.0909
Uniformity Coefficient		32
Curvature Coefficient		1.1

Remarks

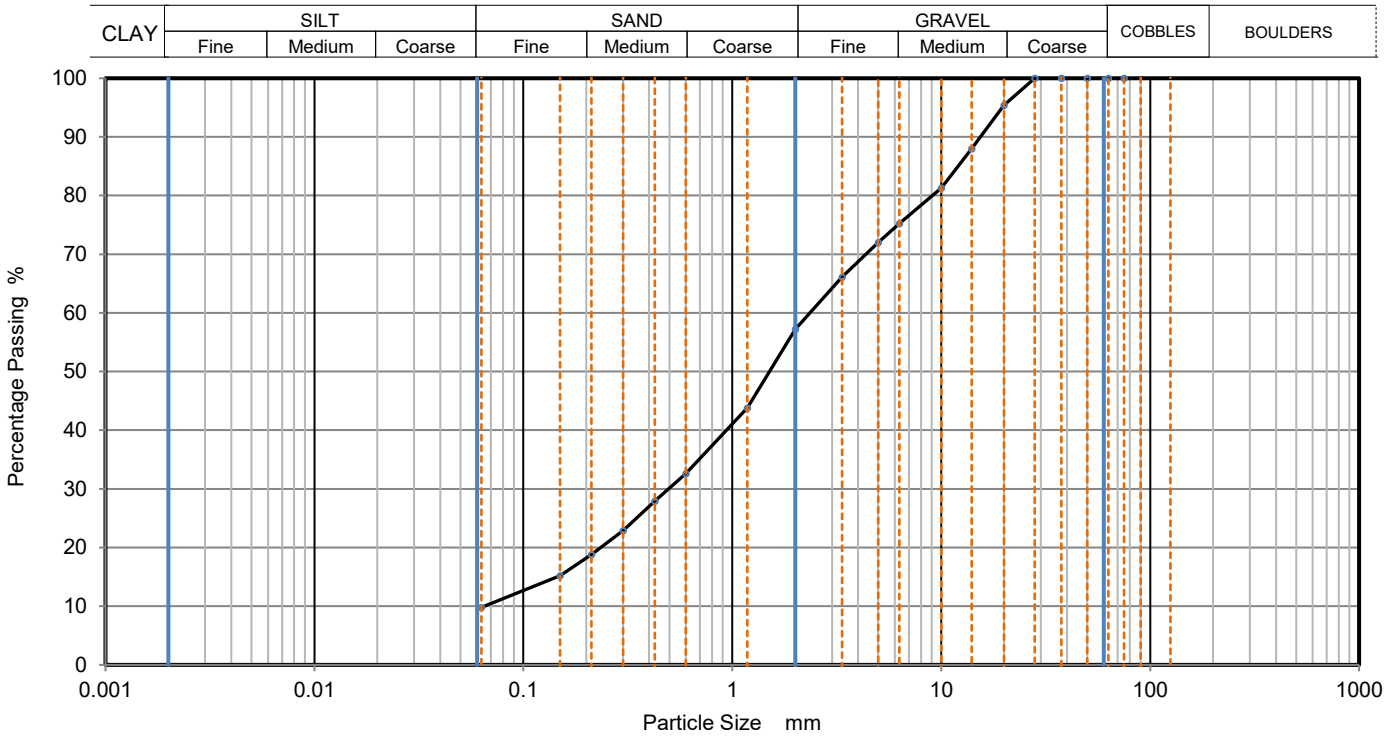
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M83
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Orangish-brown silty coarse SAND and medium GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071552



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	95		
14	88		
10	81		
6.3	75		
5	72		
3.35	66		
2	57		
1.18	44		
0.6	33		
0.425	28		
0.3	23		
0.212	19		
0.15	15		
0.063	10		

Dry Mass of sample, g	643

Sample Proportions	% dry mass
Very coarse	0
Gravel	43
Sand	47
Fines <0.063mm	10

Grading Analysis		
D100	mm	
D60	mm	2.35
D30	mm	0.495
D10	mm	0.0648
Uniformity Coefficient		36
Curvature Coefficient		1.6

Remarks

Preparation and testing in accordance with BS1377 unless noted below

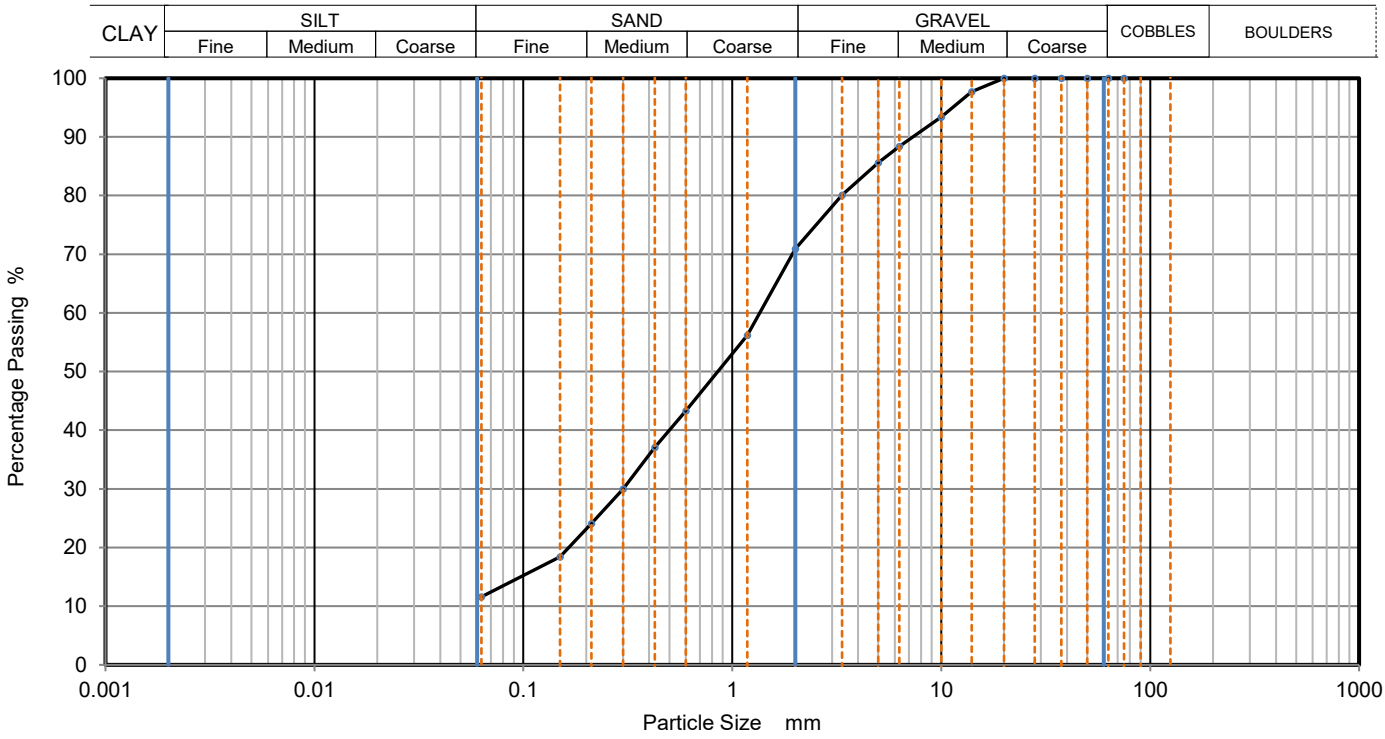
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M84
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown silty very gravelly coarse SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071554



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	98		
10	93		
6.3	88		
5	86		
3.35	80		
2	71		
1.18	56		
0.6	43		
0.425	37		
0.3	30		
0.212	24		
0.15	18		
0.063	12		

Dry Mass of sample, g	665

Sample Proportions	% dry mass
Very coarse	0
Gravel	29
Sand	59
Fines <0.063mm	12

Grading Analysis		
D100	mm	
D60	mm	1.35
D30	mm	0.301
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

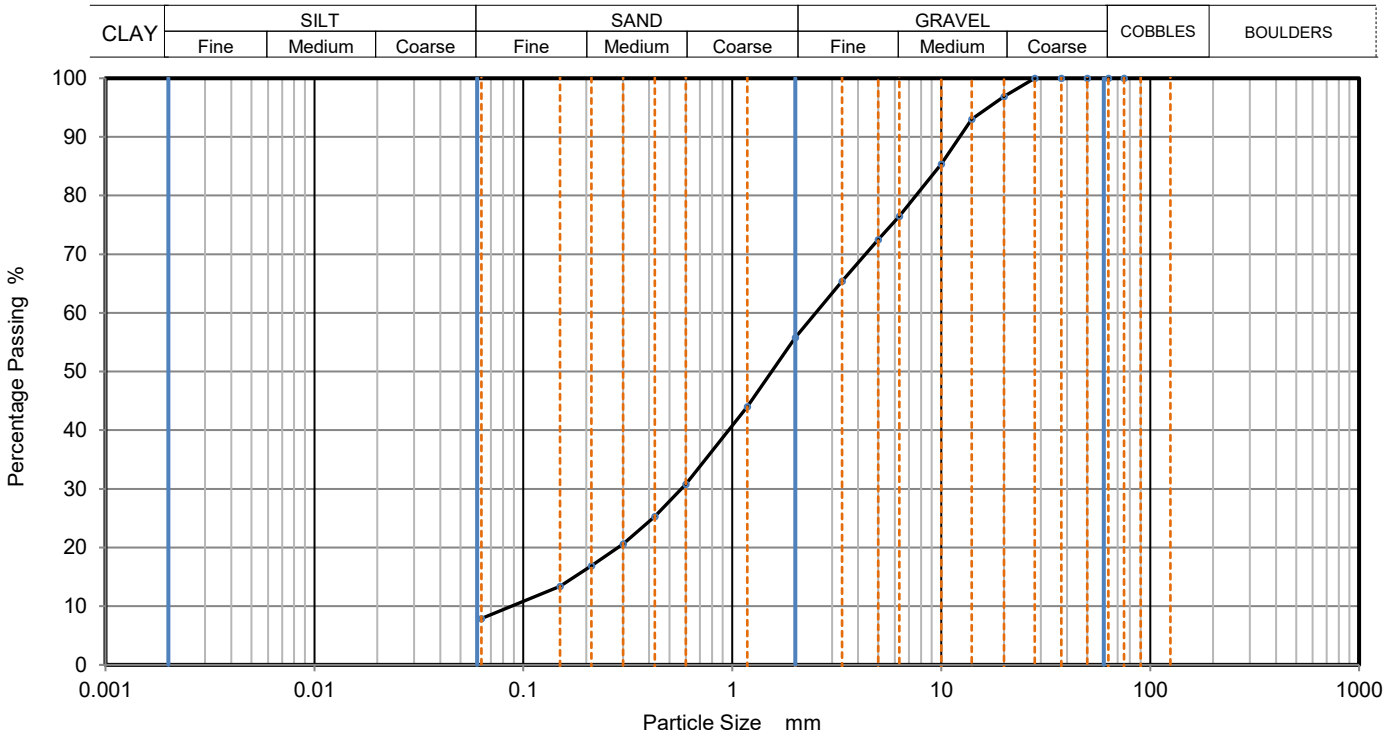
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M84
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown silty coarse SAND and medium GRAVEL.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071556



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	93		
10	85		
6.3	77		
5	73		
3.35	65		
2	56		
1.18	44		
0.6	31		
0.425	25		
0.3	21		
0.212	17		
0.15	13		
0.063	8		

Dry Mass of sample, g: 812

Sample Proportions	% dry mass
Very coarse	0
Gravel	44
Sand	48
Fines <0.063mm	8

Grading Analysis		
D100	mm	
D60	mm	2.51
D30	mm	0.57
D10	mm	0.0877
Uniformity Coefficient		29
Curvature Coefficient		1.5

Remarks

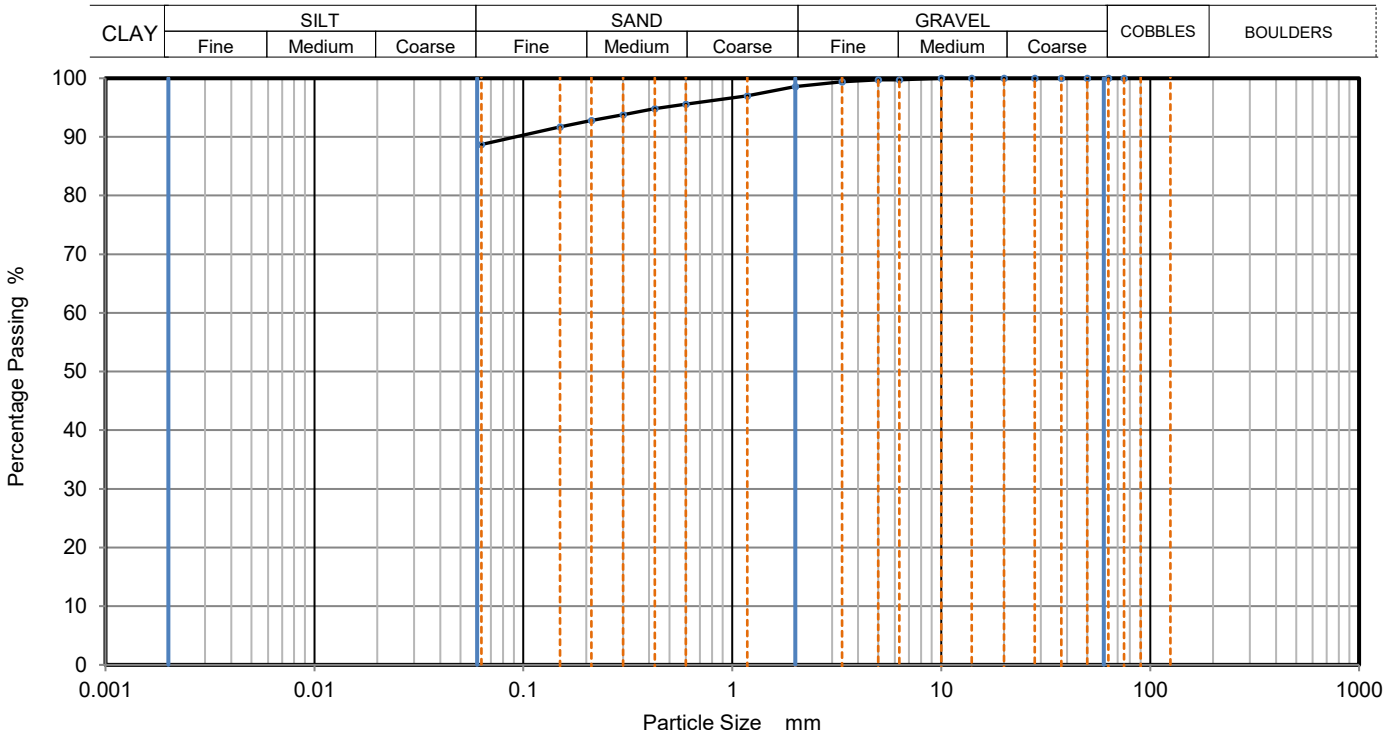
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IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M85
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Greyish-dark brown slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071558



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	99		
2	99		
1.18	97		
0.6	96		
0.425	95		
0.3	94		
0.212	93		
0.15	92		
0.063	89		

Dry Mass of sample, g	401

Sample Proportions	% dry mass
Very coarse	0
Gravel	1
Sand	10
Fines <0.063mm	89

Grading Analysis		
D100	mm	
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

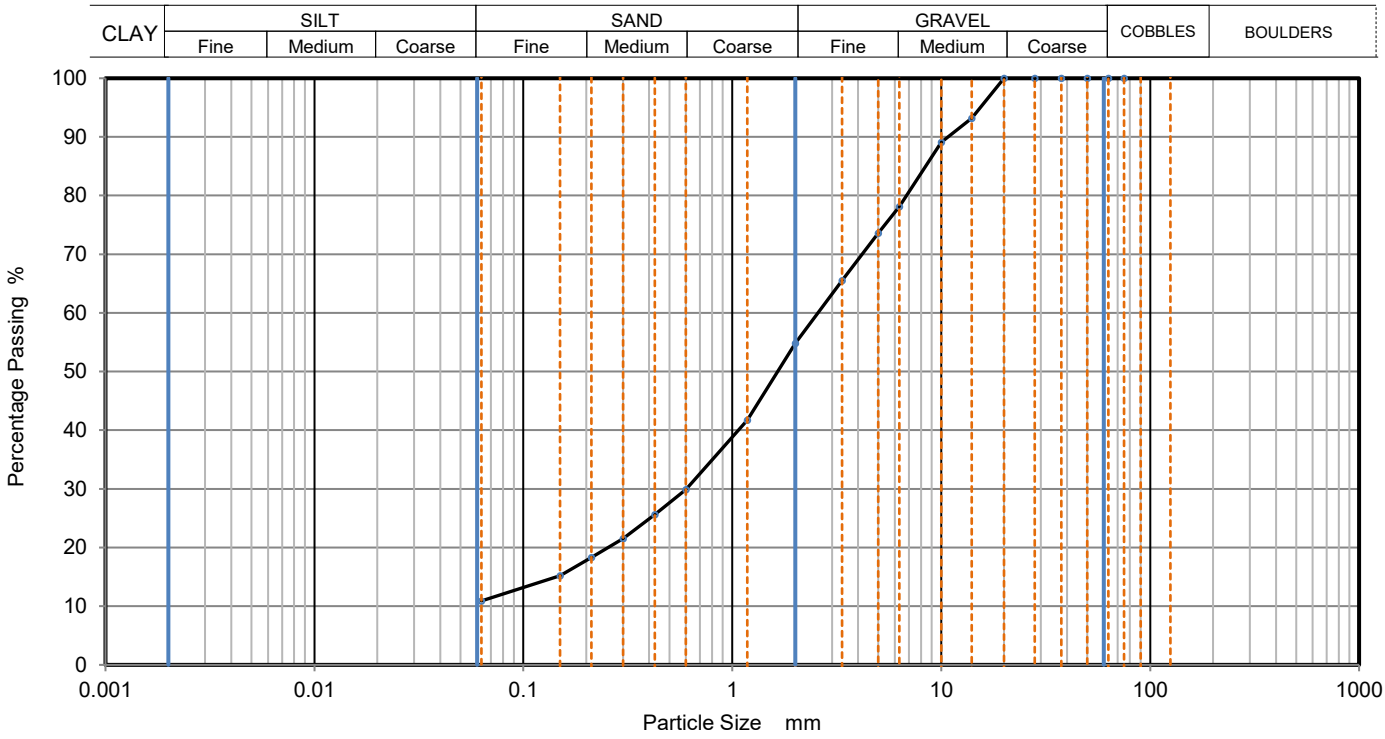
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M85
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Orangish-brown silty coarse SAND and medium GRAVEL.			Depth, m	2.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071560



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	93		
10	89		
6.3	78		
5	74		
3.35	66		
2	55		
1.18	42		
0.6	30		
0.425	26		
0.3	22		
0.212	18		
0.15	15		
0.063	11		

Dry Mass of sample, g	889

Sample Proportions	% dry mass
Very coarse	0
Gravel	45
Sand	44
Fines <0.063mm	11

Grading Analysis		
D100	mm	
D60	mm	2.57
D30	mm	0.602
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

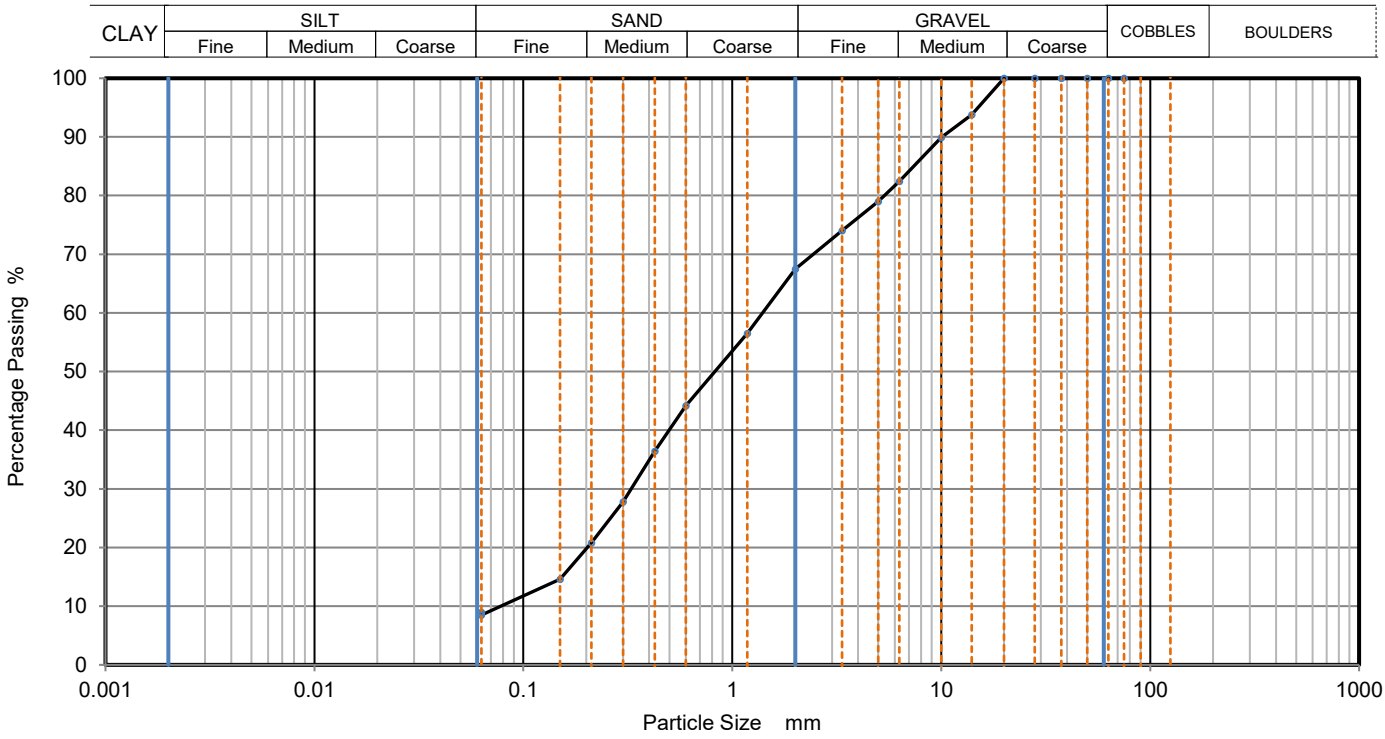
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M88
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown silty very gravelly medium and coarse SAND.			Depth, m	0.40
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025080723



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	9
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	94		
10	90		
6.3	82		
5	79		
3.35	74		
2	68		
1.18	57		
0.6	44	Particle density (assumed)	
0.425	36	2.65	Mg/m3
0.3	28		
0.212	21		
0.15	15		
0.063	9		

Dry Mass of sample, g: 499

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	59
Fines <0.063mm	9

Grading Analysis		
D100	mm	
D60	mm	1.4
D30	mm	0.328
D10	mm	0.0775
Uniformity Coefficient		18
Curvature Coefficient		0.99

Remarks

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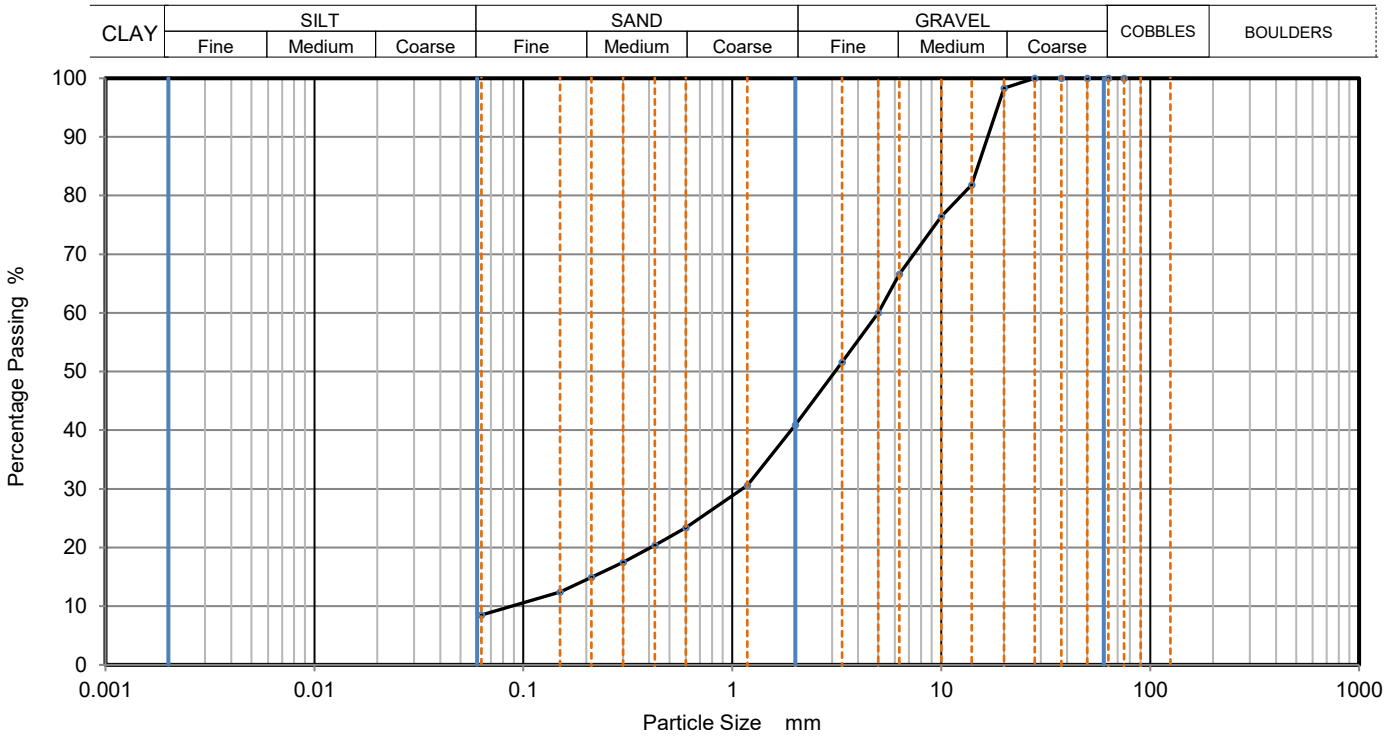
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M89
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Greyish-brown silty very sandy fine and medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080727



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	82		
10	76		
6.3	67		
5	60		
3.35	52		
2	41		
1.18	31		
0.6	23		
0.425	20		
0.3	18		
0.212	15		
0.15	12		
0.063	9		

Dry Mass of sample, g	888

Sample Proportions	% dry mass
Very coarse	0
Gravel	59
Sand	32
Fines <0.063mm	9

Grading Analysis		
D100	mm	
D60	mm	4.99
D30	mm	1.11
D10	mm	0.0878
Uniformity Coefficient		57
Curvature Coefficient		2.8

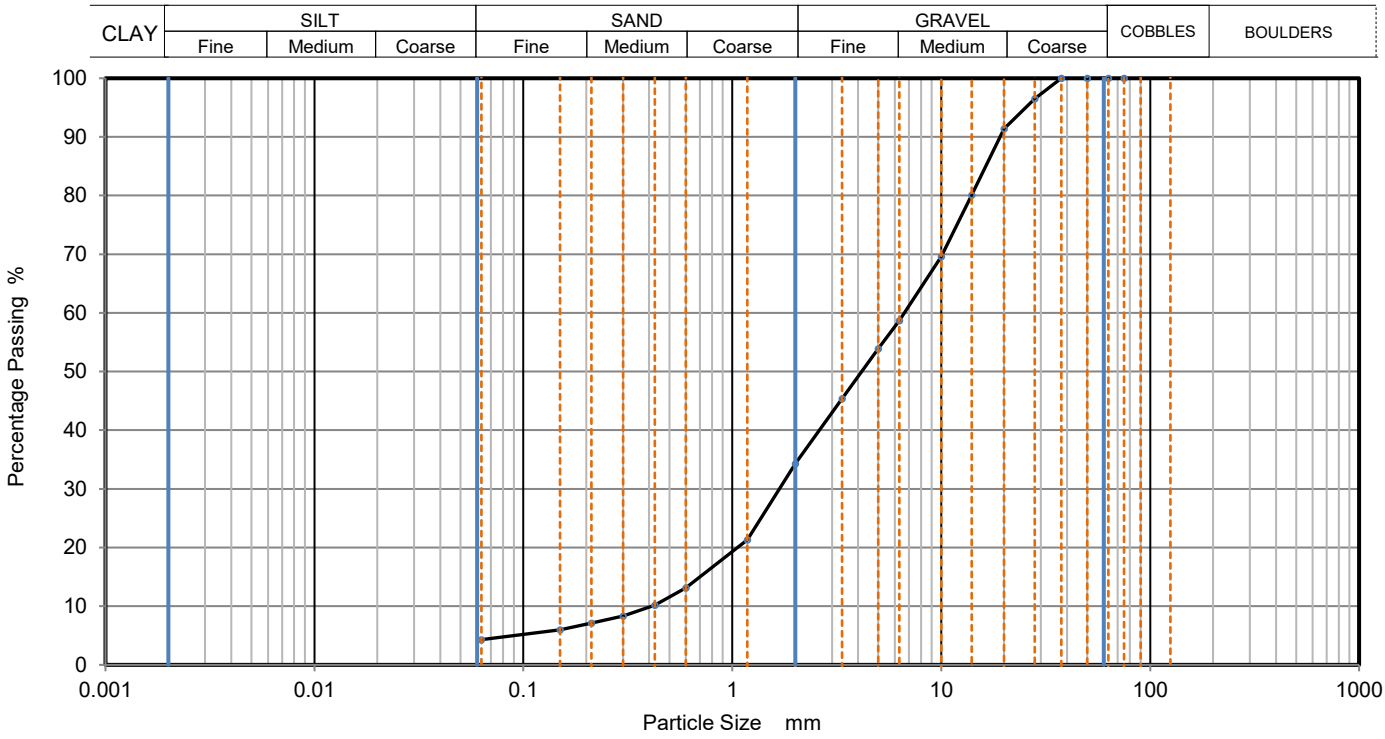
Remarks

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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M91
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown slightly silty sandy fine and medium GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071566



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	97		
20	91		
14	80		
10	70		
6.3	59		
5	54		
3.35	45		
2	34		
1.18	21		
0.6	13		
0.425	10		
0.3	8		
0.212	7		
0.15	6		
0.063	4		

Dry Mass of sample, g	996

Sample Proportions	% dry mass
Very coarse	0
Gravel	66
Sand	30
Fines <0.063mm	4

Grading Analysis		
D100	mm	
D60	mm	6.66
D30	mm	1.68
D10	mm	0.412
Uniformity Coefficient		16
Curvature Coefficient		1

Remarks

Preparation and testing in accordance with BS1377 unless noted below

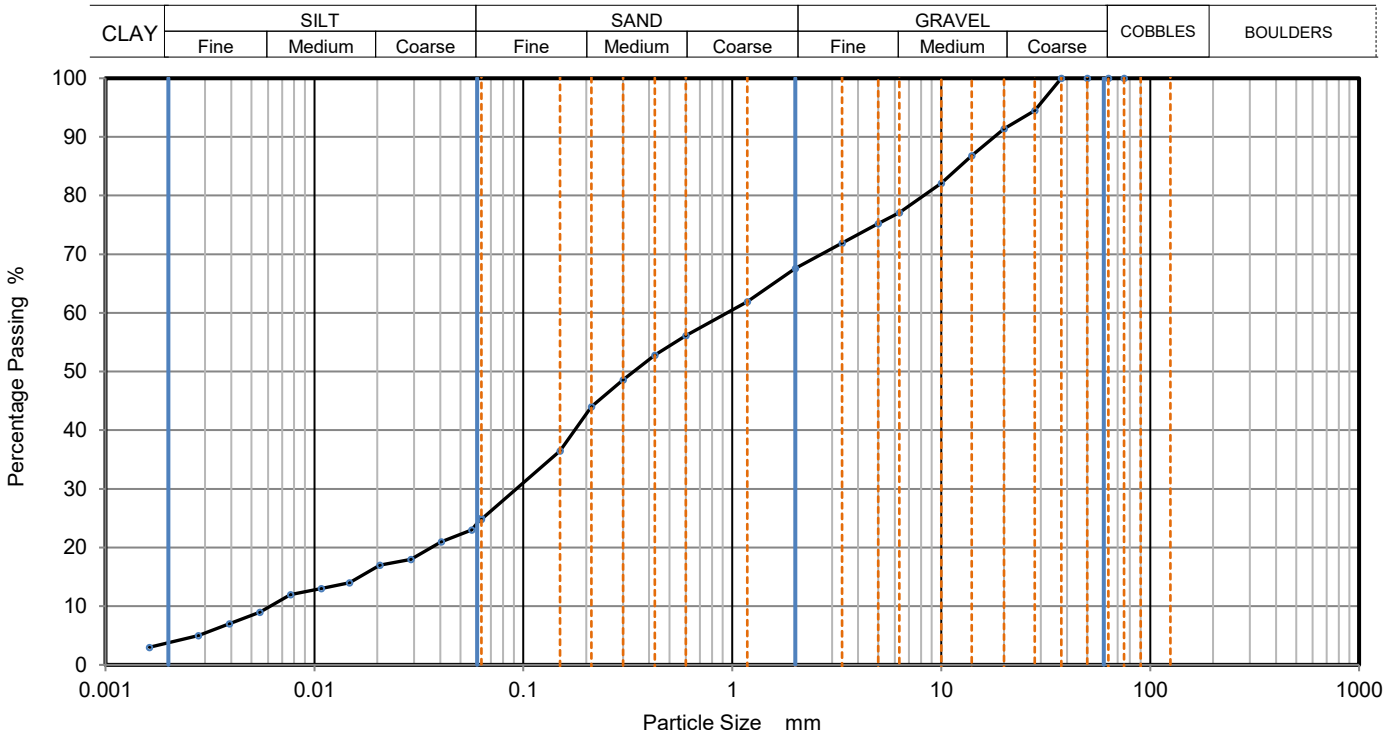
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M92
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Grey very silty very gravelly SAND.			Depth, m	0.80
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071569



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	25
		0.0565	23
75	100	0.0404	21
63	100	0.0289	18
50	100	0.0206	17
37.5	100	0.0147	14
28	95	0.0108	13
20	91	0.0077	12
14	87	0.0055	9
10	82	0.0039	7
6.3	77	0.0028	5
5	75	0.0016	3
3.35	72		
2	68		
1.18	62		
0.6	56	Particle density (assumed)	
0.425	53	2.65 Mg/m3	
0.3	49		
0.212	44		
0.15	37		
0.063	25		

Dry Mass of sample, g	907

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	43
Silt	21
Clay	4

Grading Analysis		
D100	mm	
D60	mm	0.943
D30	mm	0.0928
D10	mm	0.00613
Uniformity Coefficient		150
Curvature Coefficient		1.5

Remarks

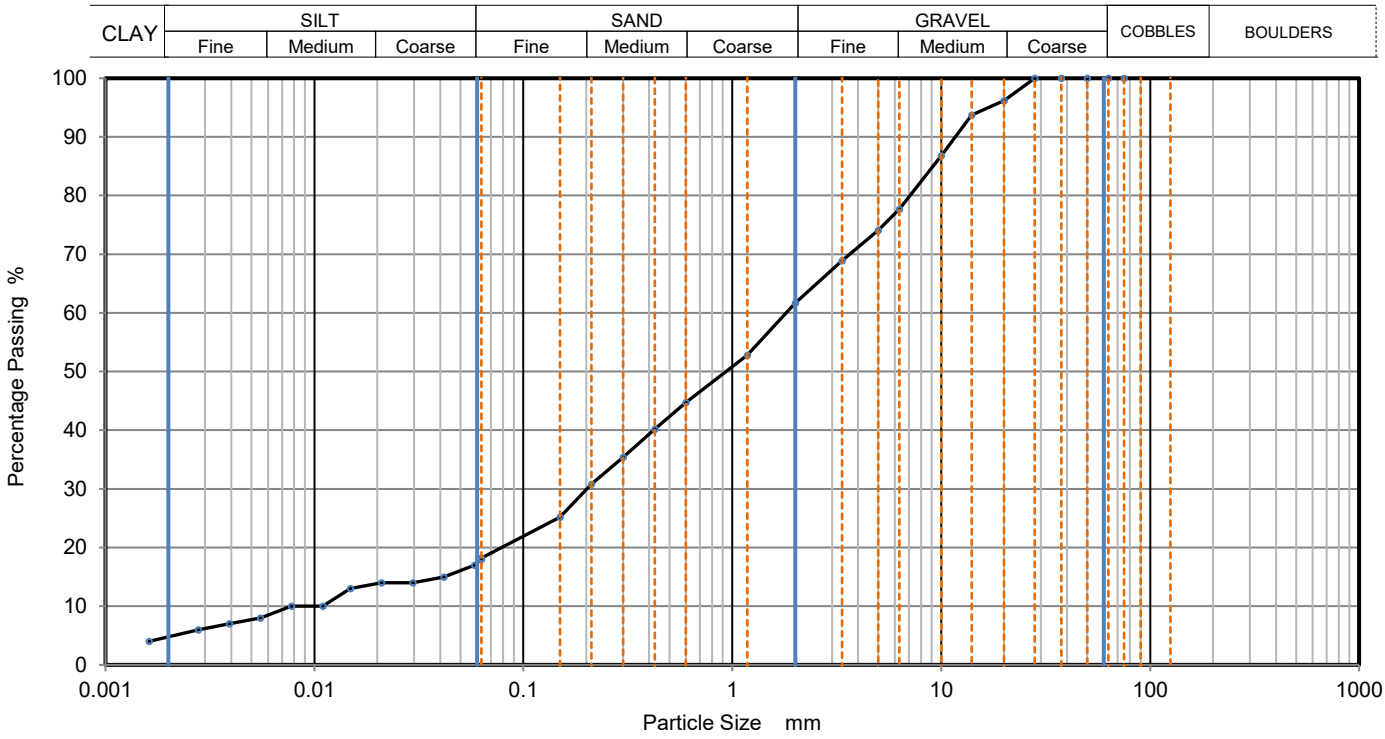
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M93
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty very gravelly SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025071571



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	18
		0.0585	17
75	100	0.0416	15
63	100	0.0296	14
50	100	0.0209	14
37.5	100	0.0149	13
28	100	0.0110	10
20	96	0.0078	10
14	94	0.0055	8
10	87	0.0039	7
6.3	78	0.0028	6
5	74	0.0016	4
3.35	69		
2	62		
1.18	53		
0.6	45	Particle density (assumed)	
0.425	40	2.65 Mg/m3	
0.3	35		
0.212	31		
0.15	25		
0.063	18		

Dry Mass of sample, g	990

Sample Proportions	% dry mass
Very coarse	0
Gravel	38
Sand	44
Silt	14
Clay	5

Grading Analysis		
D100	mm	
D60	mm	1.81
D30	mm	0.202
D10	mm	0.0112
Uniformity Coefficient		160
Curvature Coefficient		2

Remarks

Preparation and testing in accordance with BS1377 unless noted below

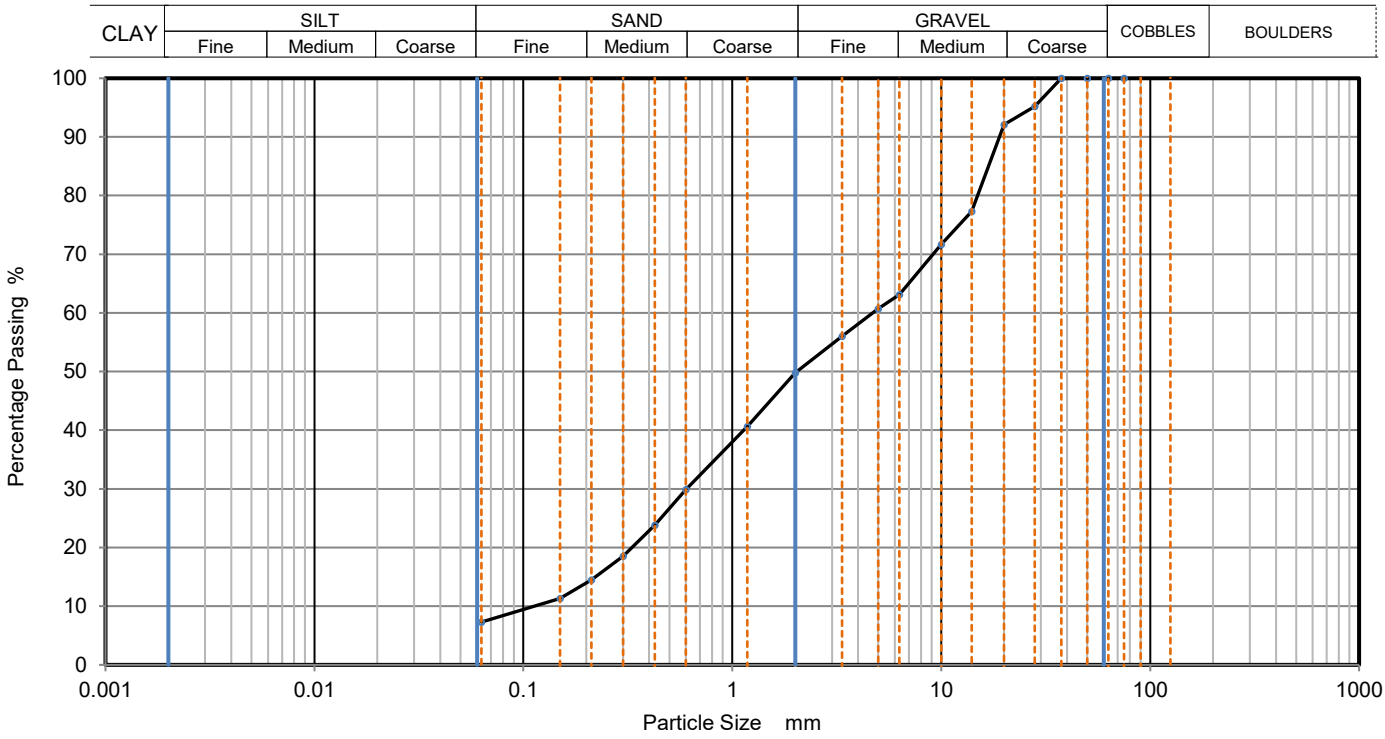
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M94
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty very sandy medium GRAVEL.			Depth, m	0.60
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071573



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	95		
20	92		
14	77		
10	72		
6.3	63		
5	61		
3.35	56		
2	50		
1.18	41		
0.6	30		
0.425	24		
0.3	19		
0.212	15		
0.15	11		
0.063	7		

Dry Mass of sample, g	994

Sample Proportions	% dry mass
Very coarse	0
Gravel	50
Sand	42
Fines <0.063mm	7

Grading Analysis		
D100	mm	
D60	mm	4.7
D30	mm	0.602
D10	mm	0.113
Uniformity Coefficient		42
Curvature Coefficient		0.68

Remarks

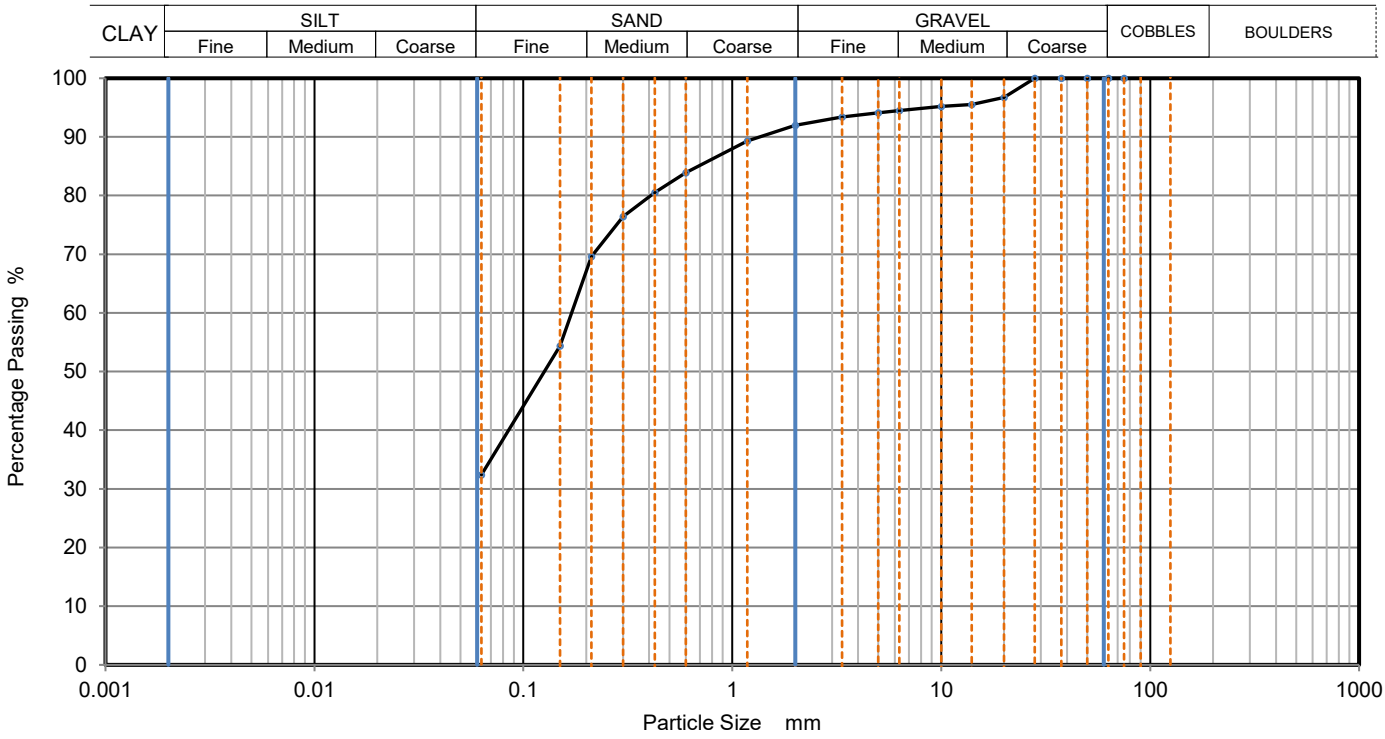
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M94
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown gravelly very silty fine SAND.			Depth, m	2.30
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025071575



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	97		
14	96		
10	95		
6.3	95		
5	94		
3.35	93		
2	92		
1.18	89		
0.6	84		
0.425	81		
0.3	76		
0.212	70		
0.15	54		
0.063	32		

Dry Mass of sample, g	704

Sample Proportions	% dry mass
Very coarse	0
Gravel	8
Sand	60
Fines <0.063mm	32

Grading Analysis		
D100	mm	
D60	mm	0.17
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

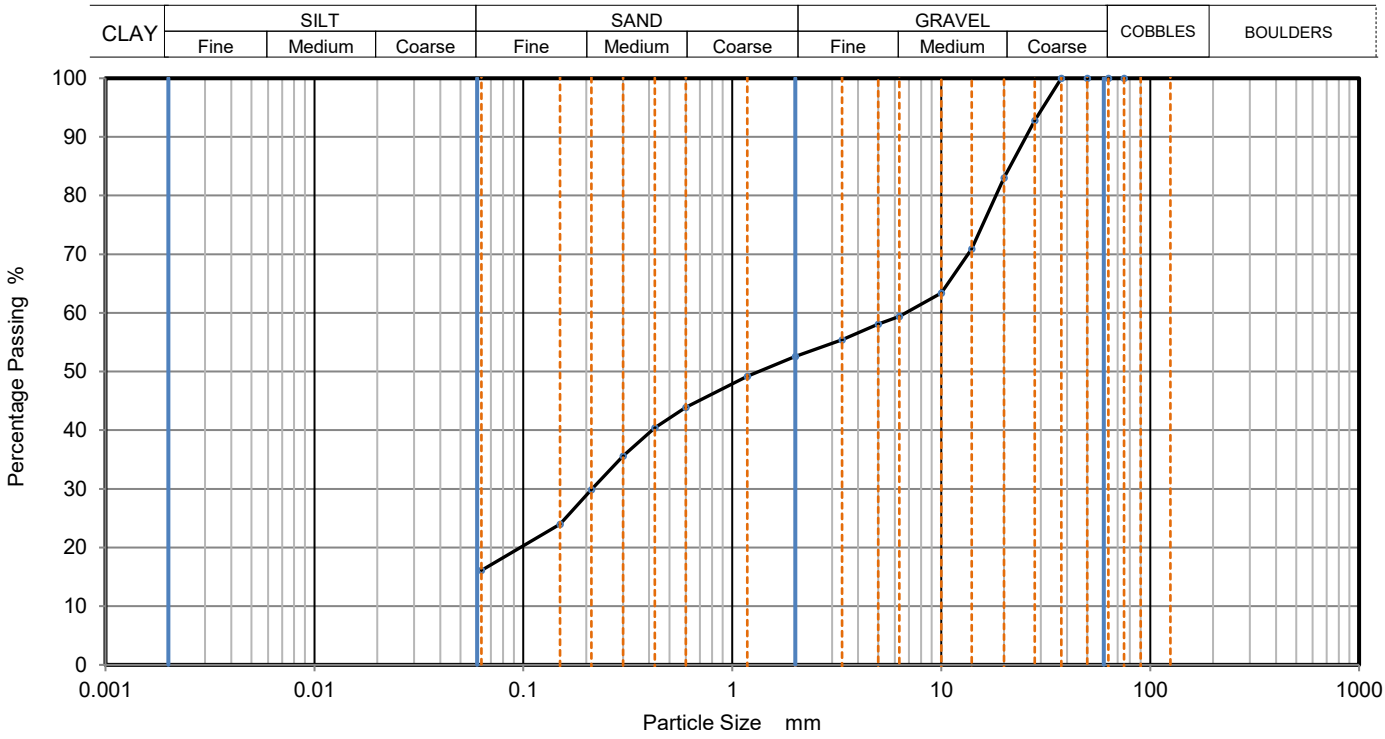
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M95
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty very sandy medium GRAVEL.			Depth, m	0.60
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080729



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	93		
20	83		
14	71		
10	63		
6.3	59		
5	58		
3.35	55		
2	53		
1.18	49		
0.6	44		
0.425	40		
0.3	36		
0.212	30		
0.15	24		
0.063	16		

Dry Mass of sample, g	742

Sample Proportions	% dry mass
Very coarse	0
Gravel	47
Sand	37
Fines <0.063mm	16

Grading Analysis		
D100	mm	
D60	mm	6.72
D30	mm	0.213
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

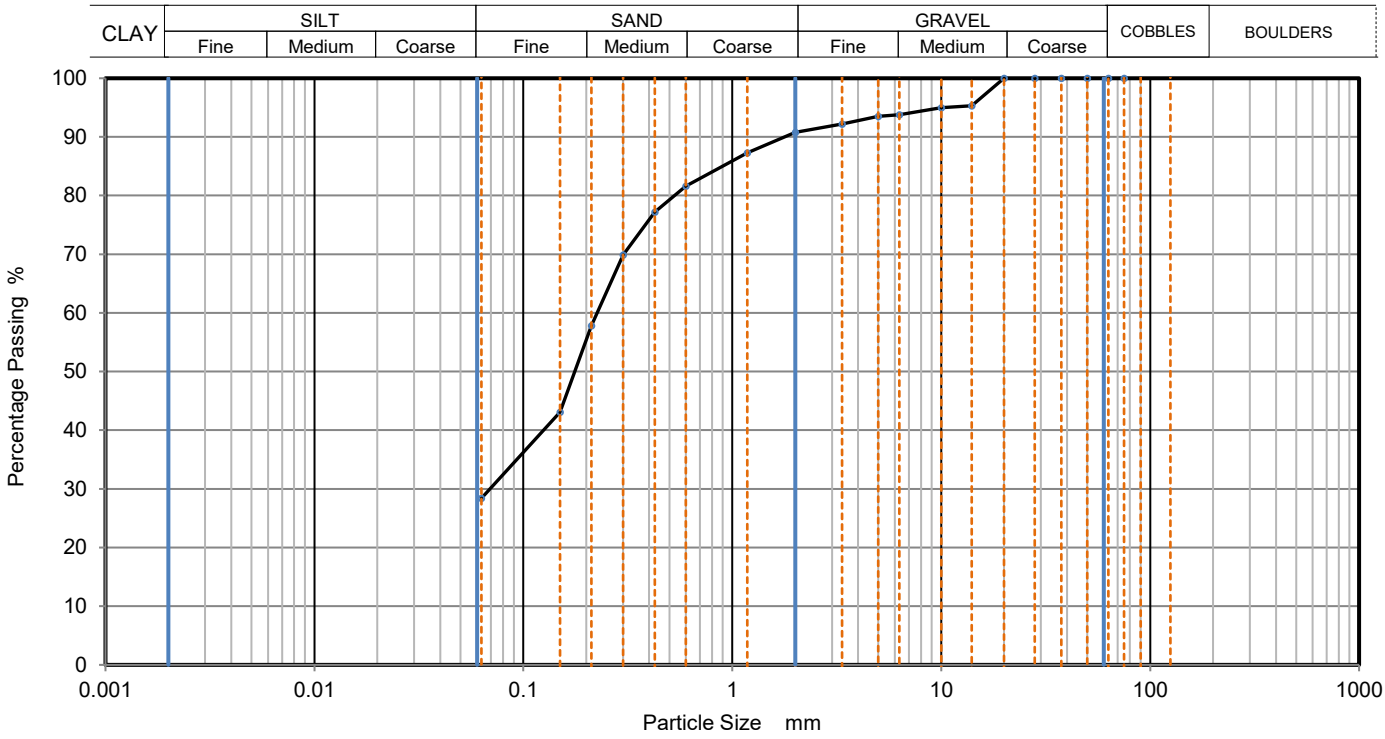
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M95
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Light brown gravelly very silty fine and medium SAND.			Depth, m	0.90
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080730



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	95		
10	95		
6.3	94		
5	94		
3.35	92		
2	91		
1.18	87		
0.6	82		
0.425	77		
0.3	70		
0.212	58		
0.15	43		
0.063	28		

Dry Mass of sample, g	715

Sample Proportions	% dry mass
Very coarse	0
Gravel	9
Sand	62
Fines <0.063mm	28

Grading Analysis		
D100	mm	
D60	mm	0.226
D30	mm	0.0691
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

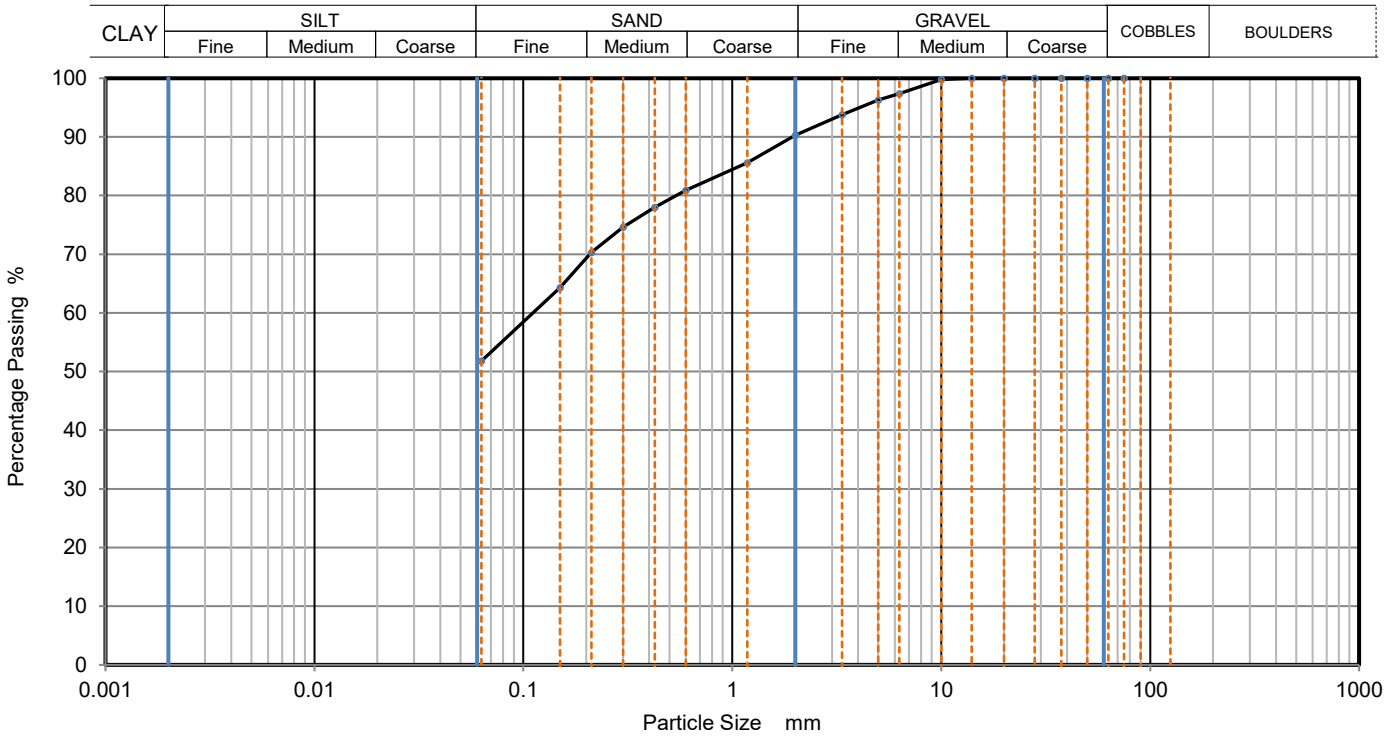
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M95
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown slightly gravelly sandy SILT.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080731



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	97		
5	96		
3.35	94		
2	90		
1.18	86		
0.6	81		
0.425	78		
0.3	75		
0.212	70		
0.15	64		
0.063	52		

Dry Mass of sample, g	711

Sample Proportions	% dry mass
Very coarse	0
Gravel	10
Sand	39
Fines <0.063mm	52

Grading Analysis		
D100	mm	
D60	mm	0.111
D30	mm	
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

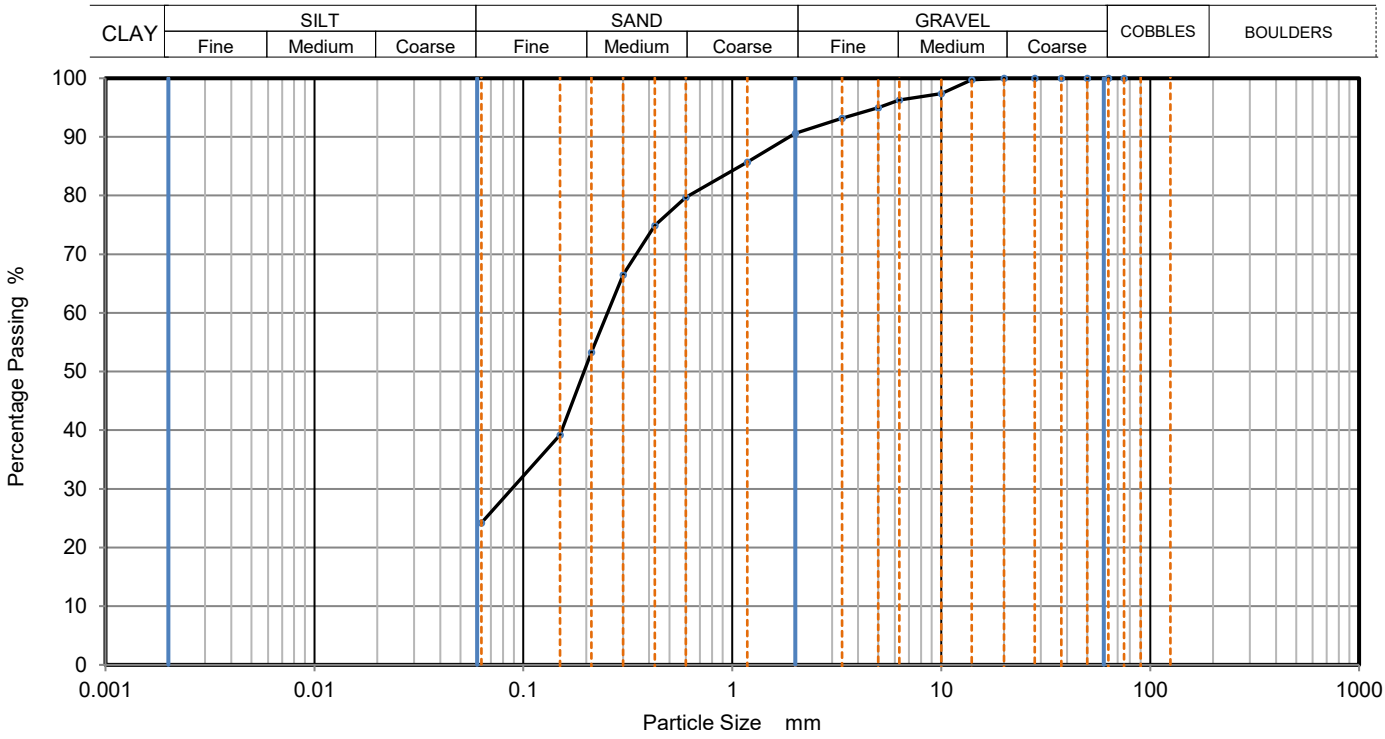
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M95
Site Name	Lot 1, Lough Talt			Sample No.	4
Soil Description	Light brown gravelly very silty fine and medium SAND.			Depth, m	1.80
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080732



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	97		
6.3	96		
5	95		
3.35	93		
2	91		
1.18	86		
0.6	80		
0.425	75		
0.3	67		
0.212	53		
0.15	39		
0.063	24		

Dry Mass of sample, g	701

Sample Proportions	% dry mass
Very coarse	0
Gravel	9
Sand	67
Fines <0.063mm	24

Grading Analysis		
D100	mm	
D60	mm	0.253
D30	mm	0.0882
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

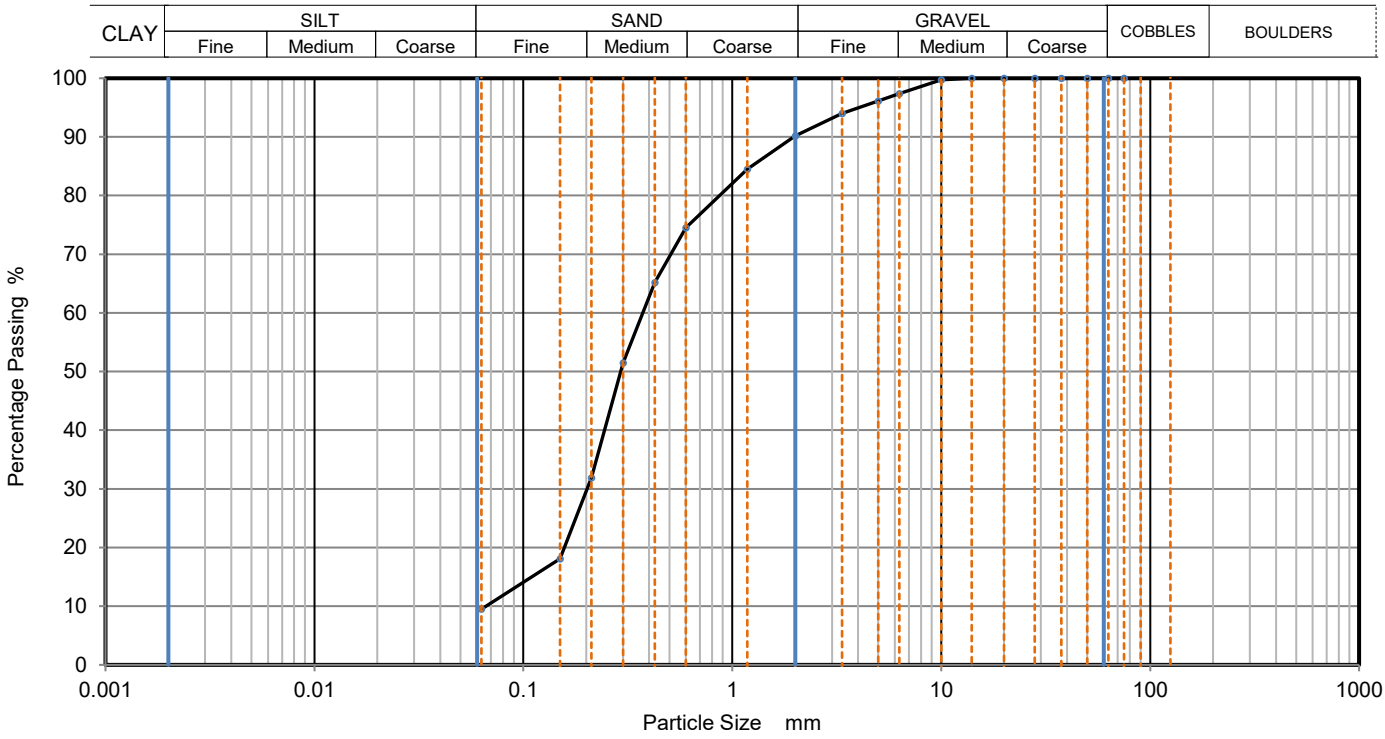
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M96
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Dark brown silty gravelly medium SAND.			Depth, m	1.20
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080734



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	97		
5	96		
3.35	94		
2	90		
1.18	85		
0.6	75	Particle density (assumed)	
0.425	65	2.65	Mg/m3
0.3	52		
0.212	32		
0.15	18		
0.063	10		

Dry Mass of sample, g: 352

Sample Proportions	% dry mass
Very coarse	0
Gravel	10
Sand	81
Fines <0.063mm	10

Grading Analysis		
D100	mm	
D60	mm	0.372
D30	mm	0.202
D10	mm	0.0662
Uniformity Coefficient		5.6
Curvature Coefficient		1.7

Remarks

Preparation and testing in accordance with BS1377 unless noted below

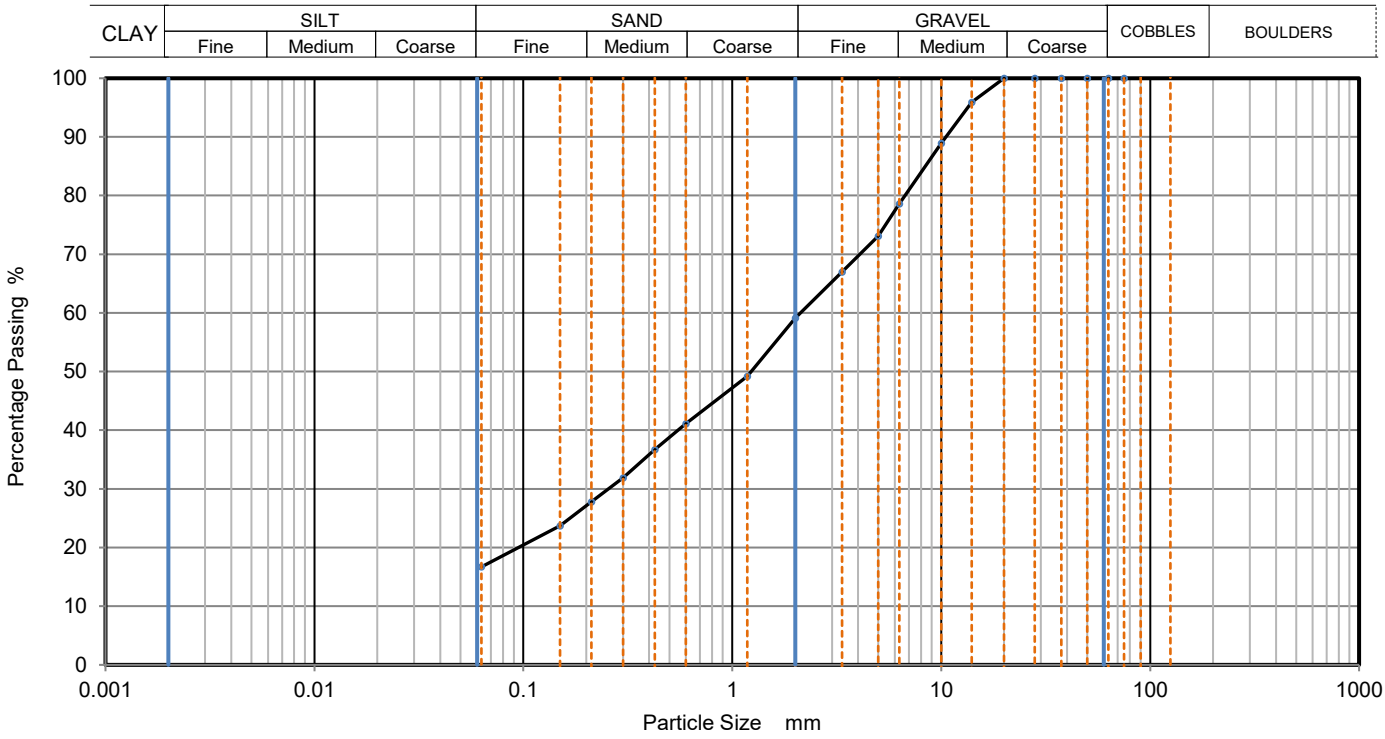
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M97
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown silty SAND and GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080735



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	96		
10	89		
6.3	79		
5	73		
3.35	67		
2	59		
1.18	49		
0.6	41		
0.425	37		
0.3	32		
0.212	28		
0.15	24		
0.063	17		

Dry Mass of sample, g	752

Sample Proportions	% dry mass
Very coarse	0
Gravel	41
Sand	42
Fines <0.063mm	17

Grading Analysis		
D100	mm	
D60	mm	2.12
D30	mm	0.255
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

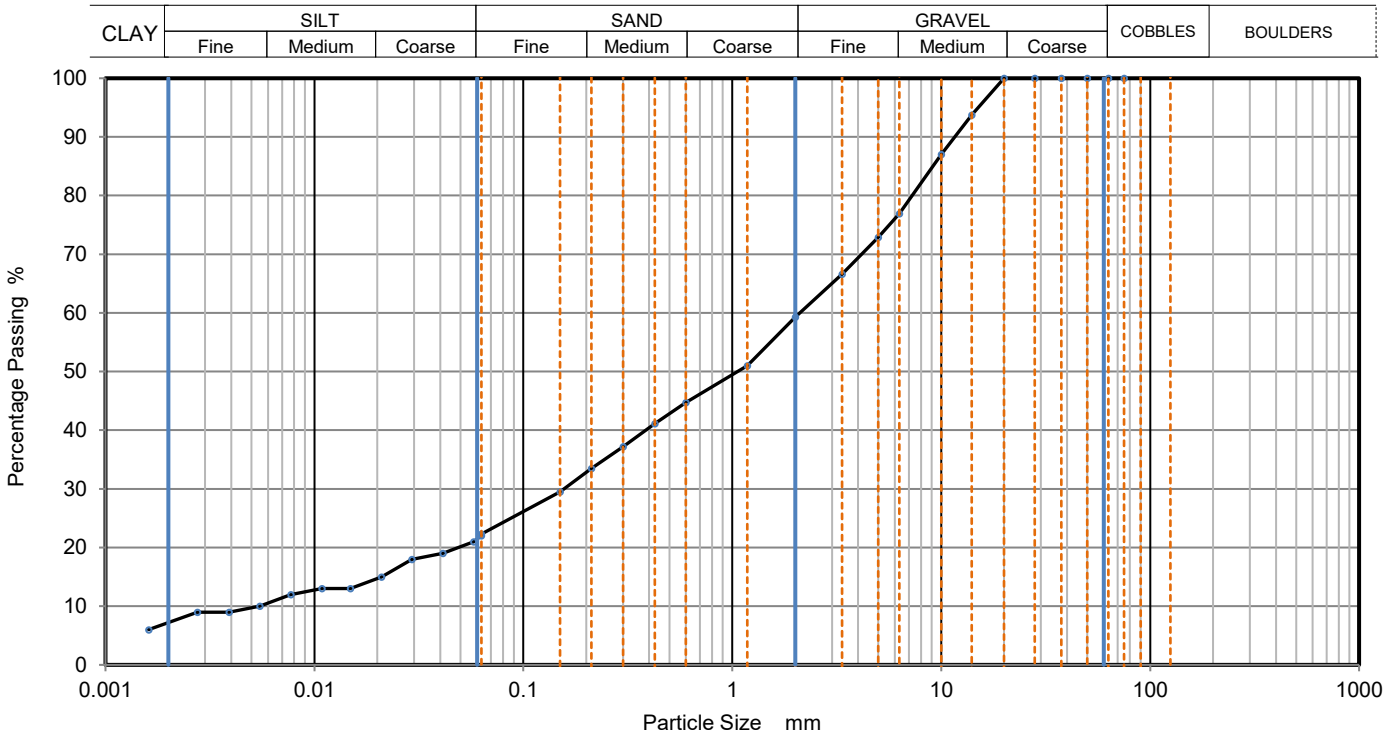
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M97
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Dark brown very silty very sandy fine and medium GRAVEL.			Depth, m	0.90
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025080736



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	22
		0.0578	21
75	100	0.0411	19
63	100	0.0292	18
50	100	0.0209	15
37.5	100	0.0149	13
28	100	0.0109	13
20	100	0.0077	12
14	94	0.0055	10
10	87	0.0039	9
6.3	77	0.0028	9
5	73	0.0016	6
3.35	67		
2	59		
1.18	51		
0.6	45	Particle density (assumed)	
0.425	41	2.65 Mg/m3	
0.3	37		
0.212	34		
0.15	30		
0.063	22		

Dry Mass of sample, g: 388

Sample Proportions	% dry mass
Very coarse	0
Gravel	41
Sand	37
Silt	15
Clay	7

Grading Analysis		
D100	mm	
D60	mm	2.11
D30	mm	0.156
D10	mm	0.005
Uniformity Coefficient		420
Curvature Coefficient		2.3

Remarks

Preparation and testing in accordance with BS1377 unless noted below

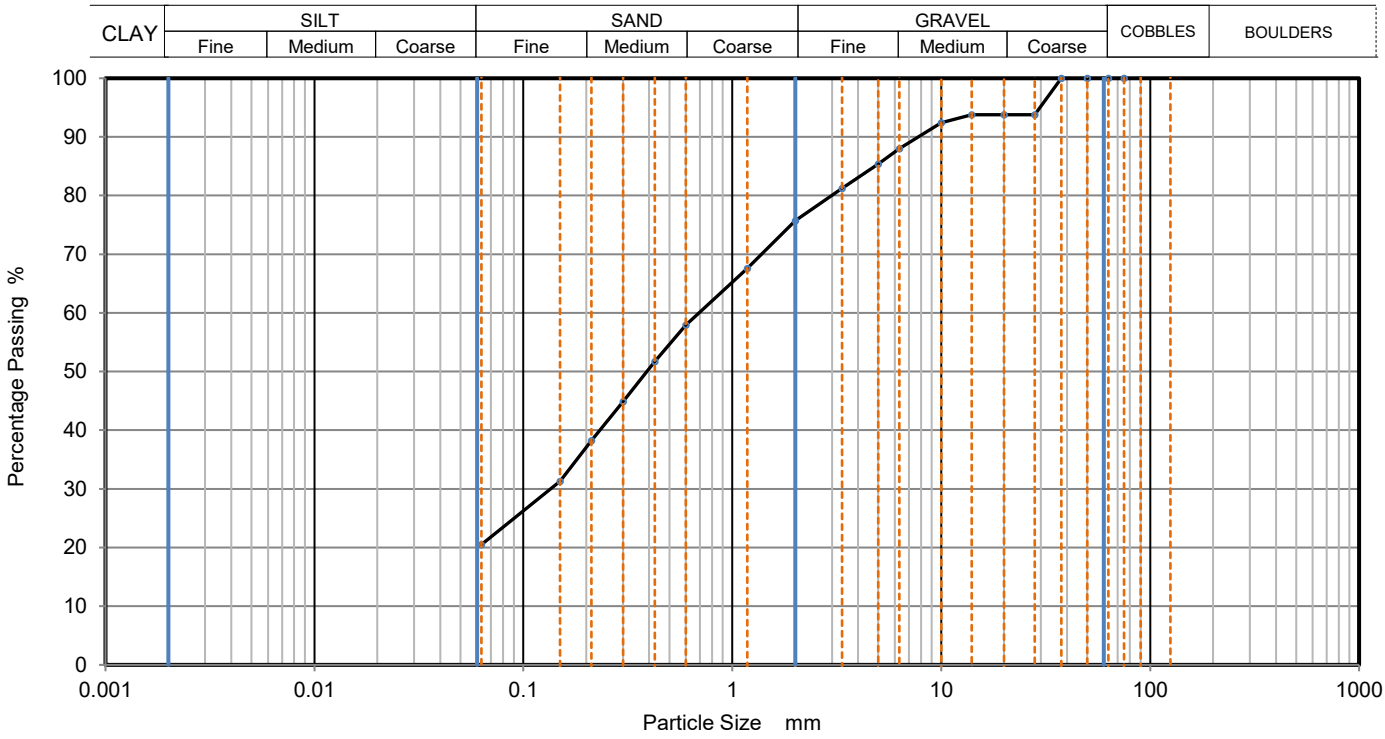
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PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M97
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown very silty very gravelly SAND.			Depth, m	1.30
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080737



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	94		
20	94		
14	94		
10	92		
6.3	88		
5	85		
3.35	81		
2	76		
1.18	68		
0.6	58		
0.425	52		
0.3	45		
0.212	38		
0.15	31		
0.063	21		

Dry Mass of sample, g	629

Sample Proportions	% dry mass
Very coarse	0
Gravel	24
Sand	55
Fines <0.063mm	20

Grading Analysis		
D100	mm	
D60	mm	0.696
D30	mm	0.135
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

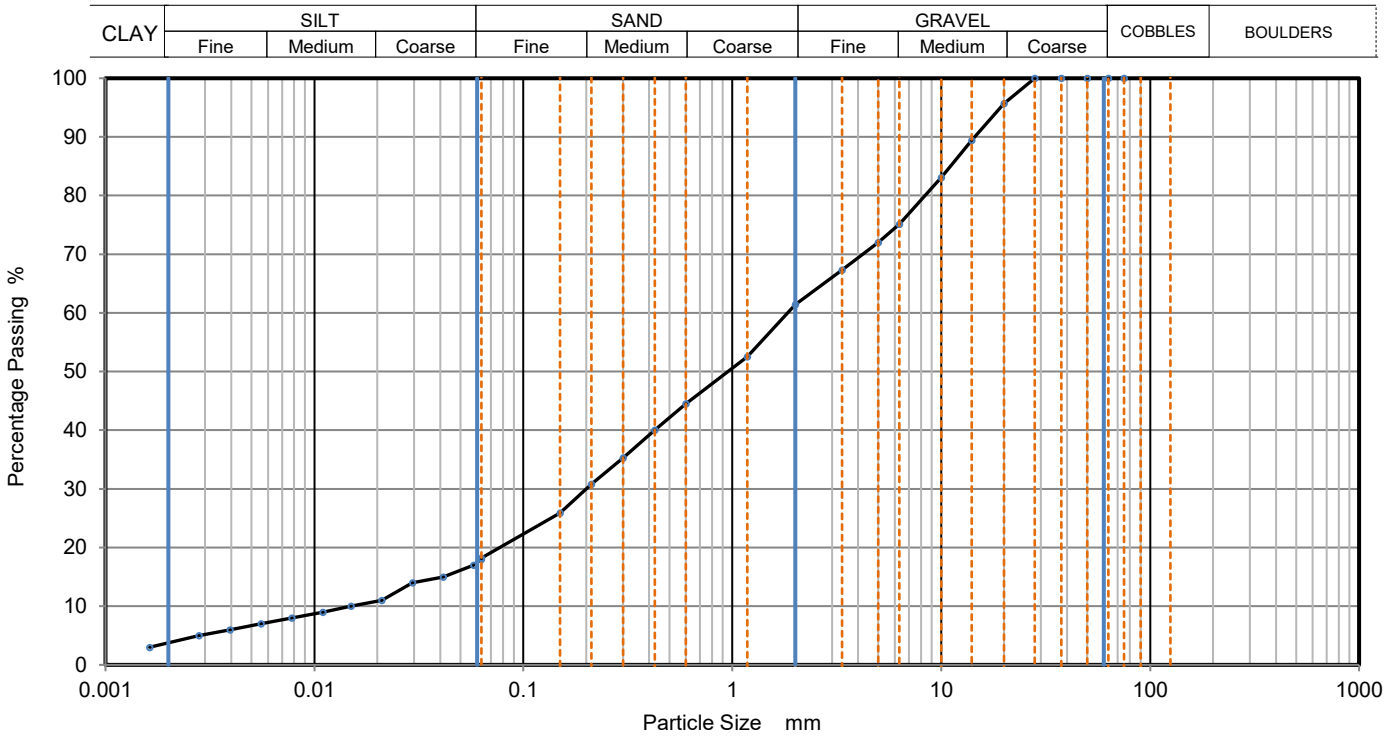
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M98
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown silty very gravelly SAND. Gravel is medium.			Depth, m	0.30
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025080738



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	18
		0.0579	17
75	100	0.0414	15
63	100	0.0294	14
50	100	0.0210	11
37.5	100	0.0150	10
28	100	0.0110	9
20	96	0.0078	8
14	89	0.0055	7
10	83	0.0039	6
6.3	75	0.0028	5
5	72	0.0016	3
3.35	67		
2	61		
1.18	53		
0.6	45	Particle density (assumed)	
0.425	40	2.65 Mg/m3	
0.3	35		
0.212	31		
0.15	26		
0.063	18		

Dry Mass of sample, g	789

Sample Proportions	% dry mass
Very coarse	0
Gravel	39
Sand	43
Silt	14
Clay	4

Grading Analysis		
D100	mm	
D60	mm	1.84
D30	mm	0.2
D10	mm	0.014
Uniformity Coefficient		130
Curvature Coefficient		1.6

Remarks

Preparation and testing in accordance with BS1377 unless noted below

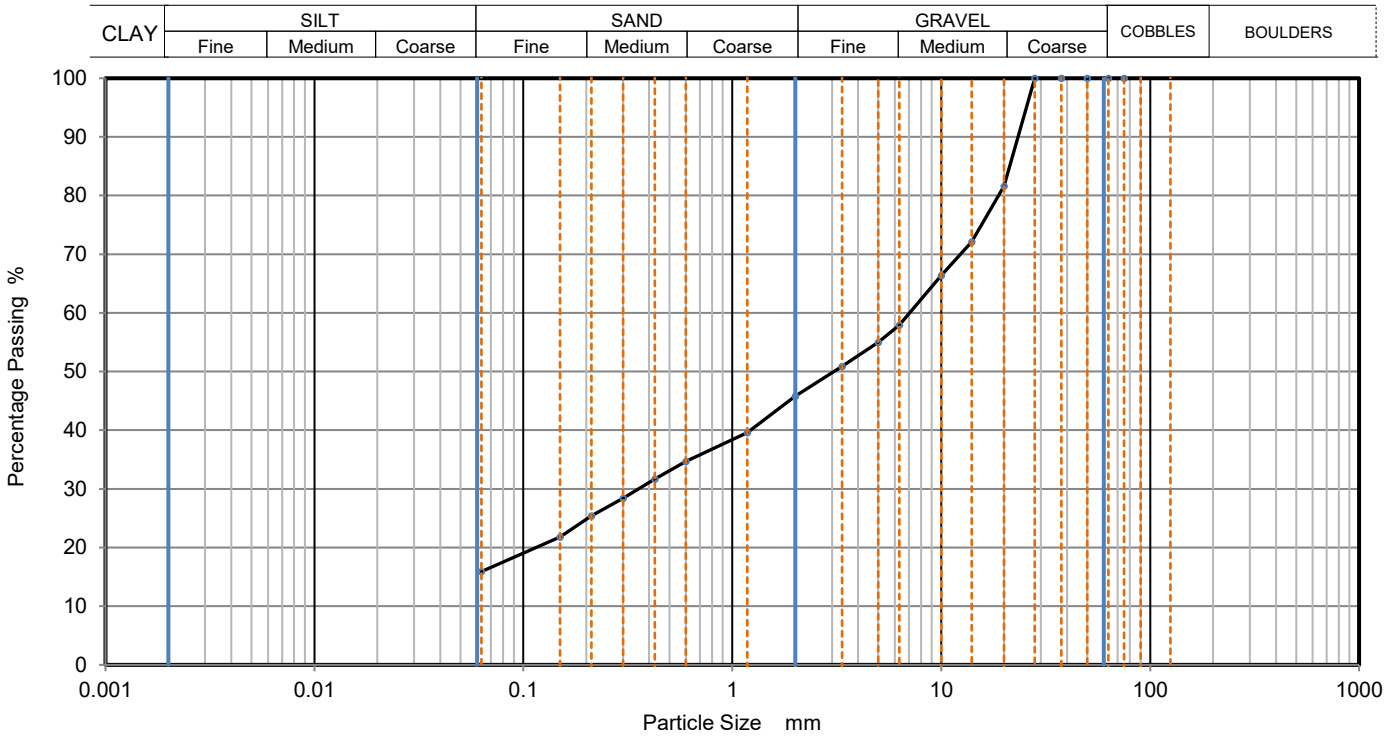
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M98
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown silty very sandy GRAVEL.			Depth, m	1.30
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080740



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	82		
14	72		
10	66		
6.3	58		
5	55		
3.35	51		
2	46		
1.18	40		
0.6	35		
0.425	32		
0.3	28		
0.212	25		
0.15	22		
0.063	16		

Dry Mass of sample, g	812

Sample Proportions	% dry mass
Very coarse	0
Gravel	54
Sand	30
Fines <0.063mm	16

Grading Analysis		
D100	mm	
D60	mm	7.06
D30	mm	0.355
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

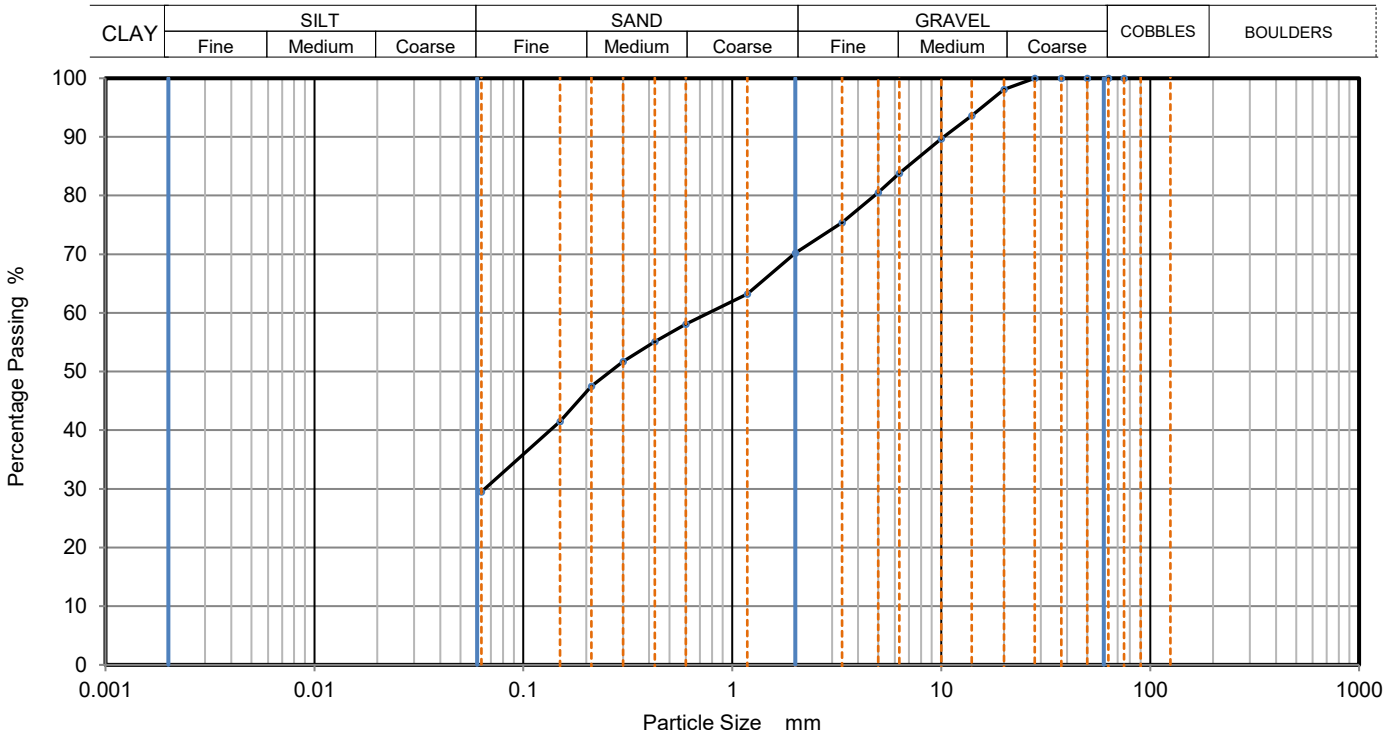
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M99
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown very gravelly very silty SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL12025080741



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	94		
10	90		
6.3	84		
5	81		
3.35	75		
2	70		
1.18	63		
0.6	58		
0.425	55		
0.3	52		
0.212	48		
0.15	42		
0.063	30		

Dry Mass of sample, g	730

Sample Proportions	% dry mass
Very coarse	0
Gravel	30
Sand	41
Fines <0.063mm	30

Grading Analysis		
D100	mm	
D60	mm	0.771
D30	mm	0.0653
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

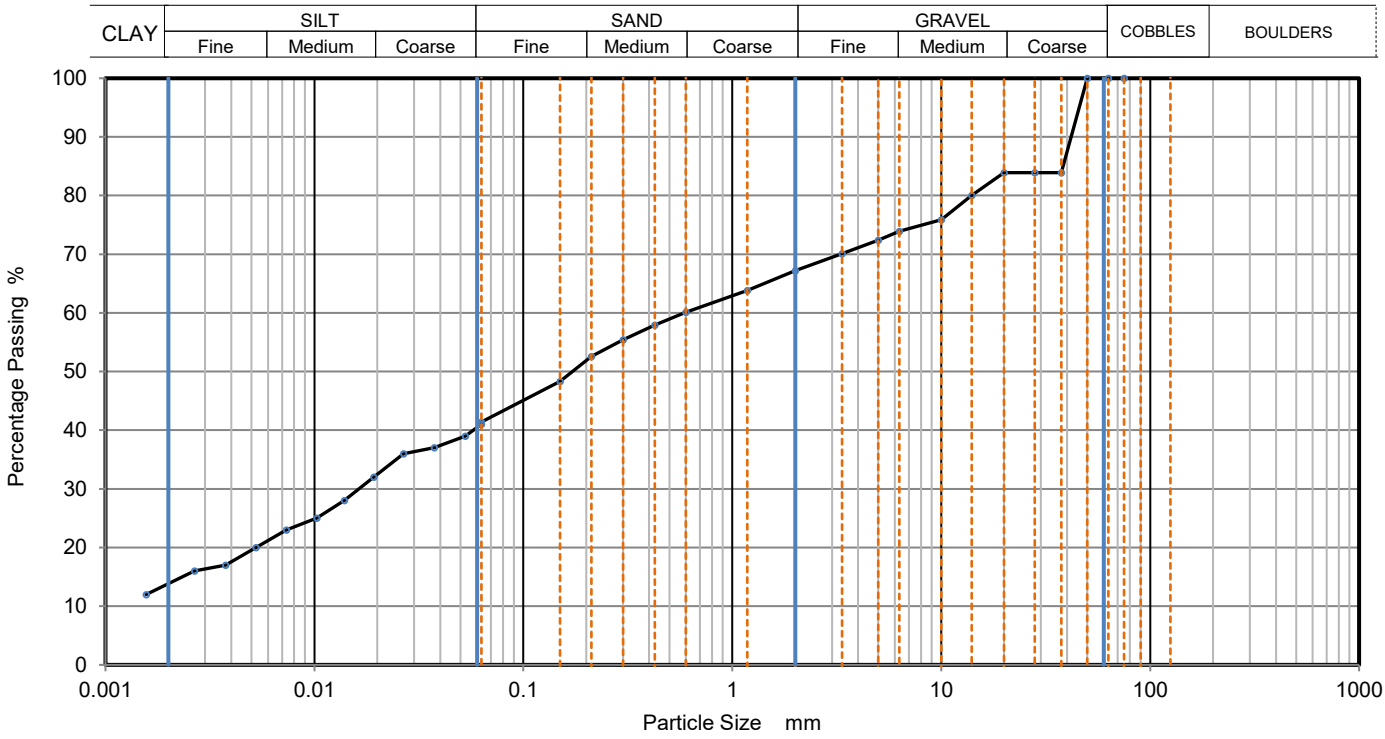
Preparation and testing in accordance with BS1377 unless noted below

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				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M99
Site Name	Lot 1, Lough Talt			Sample No.	2
Soil Description	Light brown slightly sandy slightly gravelly SILT.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025080742



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	41
		0.0527	39
75	100	0.0375	37
63	100	0.0267	36
50	100	0.0193	32
37.5	84	0.0139	28
28	84	0.0103	25
20	84	0.0073	23
14	80	0.0053	20
10	76	0.0038	17
6.3	74	0.0027	16
5	72	0.0016	12
3.35	70		
2	67		
1.18	64		
0.6	60	Particle density (assumed)	
0.425	58	2.65 Mg/m3	
0.3	55		
0.212	53		
0.15	48		
0.063	41		

Dry Mass of sample, g	735

Sample Proportions	% dry mass
Very coarse	0
Gravel	33
Sand	26
Silt	28
Clay	14

Grading Analysis		
D100	mm	
D60	mm	0.594
D30	mm	0.0163
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

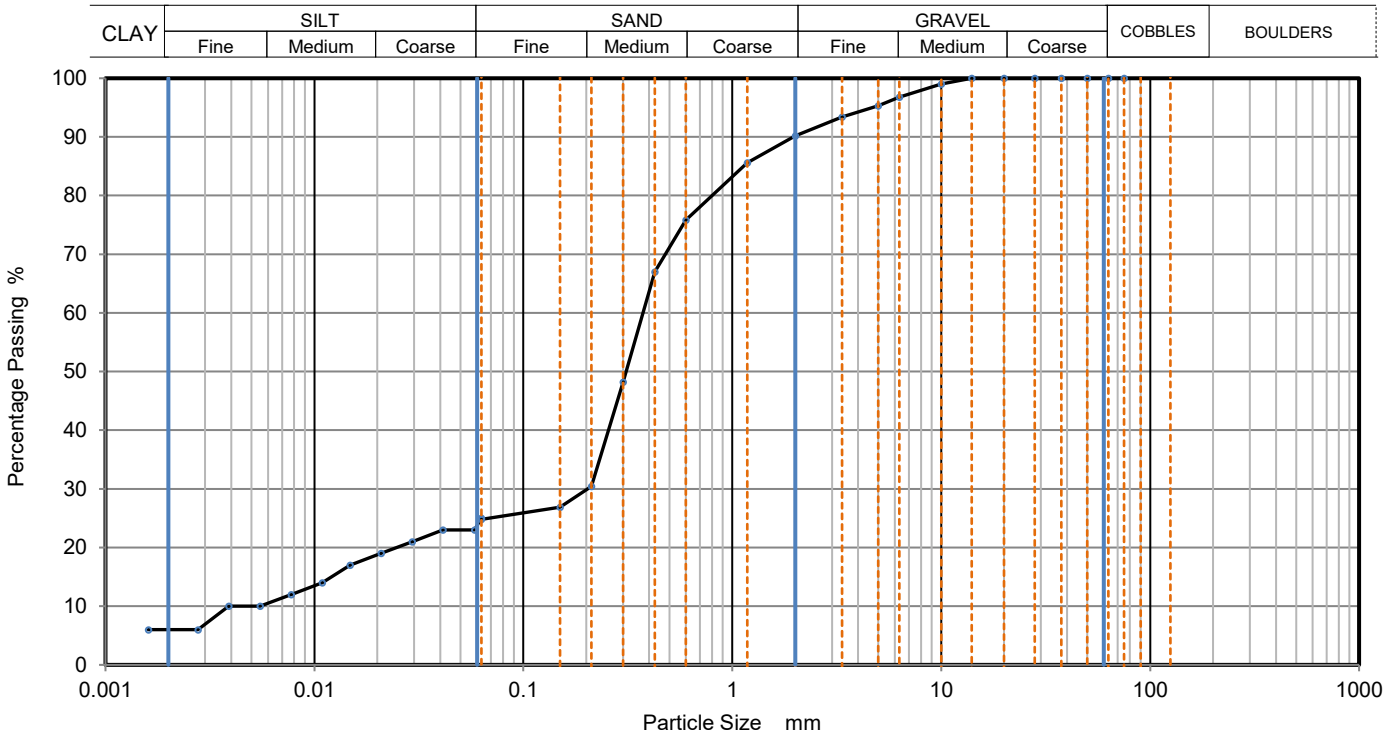
Preparation and testing in accordance with BS1377 unless noted below

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				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-R01
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown gravelly very silty medium SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250311124



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	25
		0.0583	23
75	100	0.0412	23
63	100	0.0293	21
50	100	0.0208	19
37.5	100	0.0148	17
28	100	0.0109	14
20	100	0.0077	12
14	100	0.0055	10
10	99	0.0039	10
6.3	97	0.0028	6
5	95	0.0016	6
3.35	93		
2	90		
1.18	86		
0.6	76	Particle density (assumed)	
0.425	67	2.65	Mg/m3
0.3	48		
0.212	30		
0.15	27		
0.063	25		

Dry Mass of sample, g	686

Sample Proportions	% dry mass
Very coarse	0
Gravel	10
Sand	65
Silt	19
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.374
D30	mm	0.204
D10	mm	0.00378
Uniformity Coefficient		99
Curvature Coefficient		29

Remarks

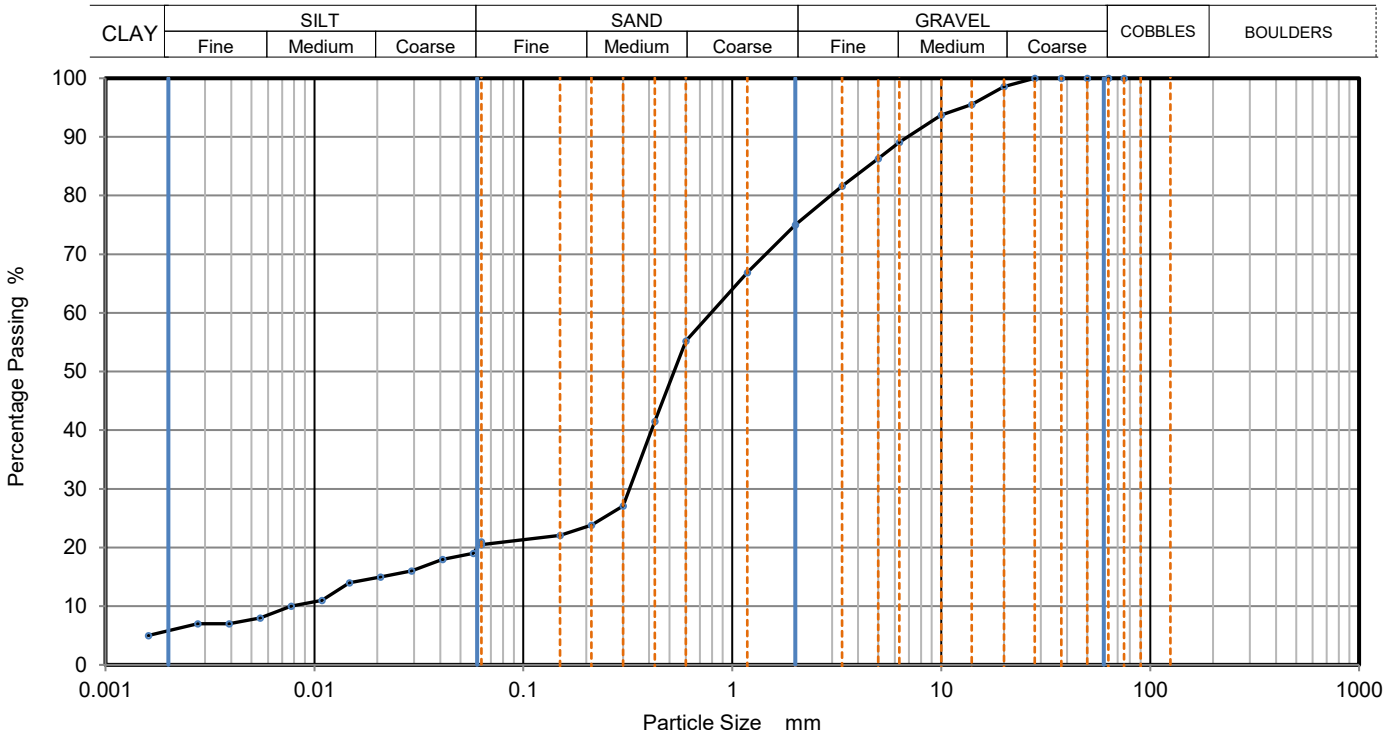
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				QC From No:R2

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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-R02
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown very silty very gravelly medium and coarse SAND.			Depth, m	0.60
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250311127



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	21
		0.0576	19
75	100	0.0410	18
63	100	0.0291	16
50	100	0.0207	15
37.5	100	0.0147	14
28	100	0.0109	11
20	99	0.0077	10
14	96	0.0055	8
10	94	0.0039	7
6.3	89	0.0028	7
5	86	0.0016	5
3.35	82		
2	75		
1.18	67		
0.6	55	Particle density (assumed)	
0.425	42	2.65 Mg/m3	
0.3	27		
0.212	24		
0.15	22		
0.063	21		

Dry Mass of sample, g	1016

Sample Proportions	% dry mass
Very coarse	0
Gravel	25
Sand	55
Silt	14
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.791
D30	mm	0.322
D10	mm	0.00861
Uniformity Coefficient		92
Curvature Coefficient		15

Remarks

Preparation and testing in accordance with BS1377 unless noted below

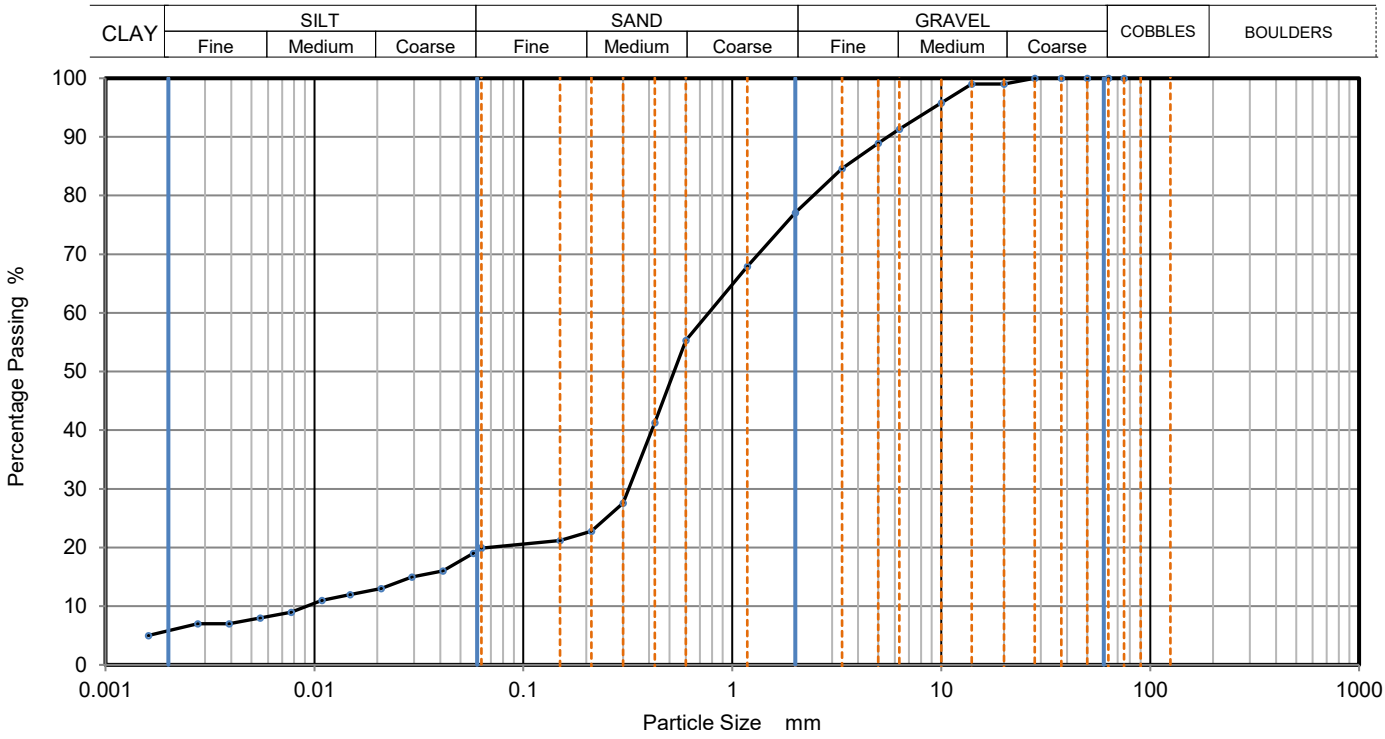
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-R02
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown very silty very gravelly medium SAND.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250311129



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	20
		0.0576	19
75	100	0.0412	16
63	100	0.0293	15
50	100	0.0208	13
37.5	100	0.0148	12
28	100	0.0109	11
20	99	0.0077	9
14	99	0.0055	8
10	96	0.0039	7
6.3	91	0.0028	7
5	89	0.0016	5
3.35	85		
2	77		
1.18	68		
0.6	55	Particle density (assumed)	
0.425	41	2.65 Mg/m3	
0.3	28		
0.212	23		
0.15	21		
0.063	20		

Dry Mass of sample, g: 956

Sample Proportions	% dry mass
Very coarse	0
Gravel	23
Sand	57
Silt	14
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.773
D30	mm	0.319
D10	mm	0.00929
Uniformity Coefficient		83
Curvature Coefficient		14

Remarks

Preparation and testing in accordance with BS1377 unless noted below

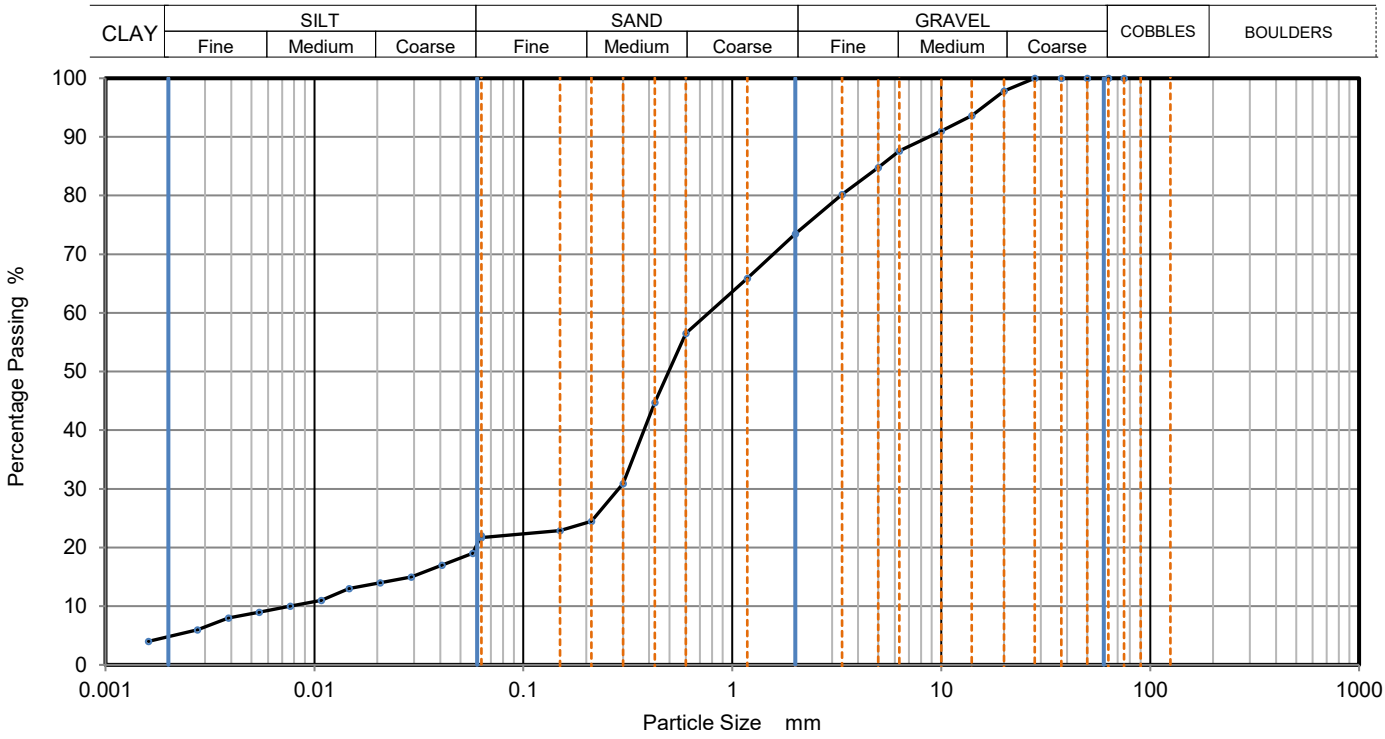
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-R03
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown very silty very gravelly medium SAND.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250311132



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	22
		0.0571	19
75	100	0.0408	17
63	100	0.0290	15
50	100	0.0206	14
37.5	100	0.0147	13
28	100	0.0108	11
20	98	0.0077	10
14	94	0.0054	9
10	91	0.0039	8
6.3	88	0.0028	6
5	85	0.0016	4
3.35	80		
2	74		
1.18	66		
0.6	57	Particle density (assumed)	
0.425	45	2.65	Mg/m3
0.3	31		
0.212	25		
0.15	23		
0.063	22		

Dry Mass of sample, g: 858

Sample Proportions	% dry mass
Very coarse	0
Gravel	27
Sand	52
Silt	17
Clay	5

Grading Analysis		
D100	mm	
D60	mm	0.77
D30	mm	0.285
D10	mm	0.00724
Uniformity Coefficient		110
Curvature Coefficient		15

Remarks

Preparation and testing in accordance with BS1377 unless noted below

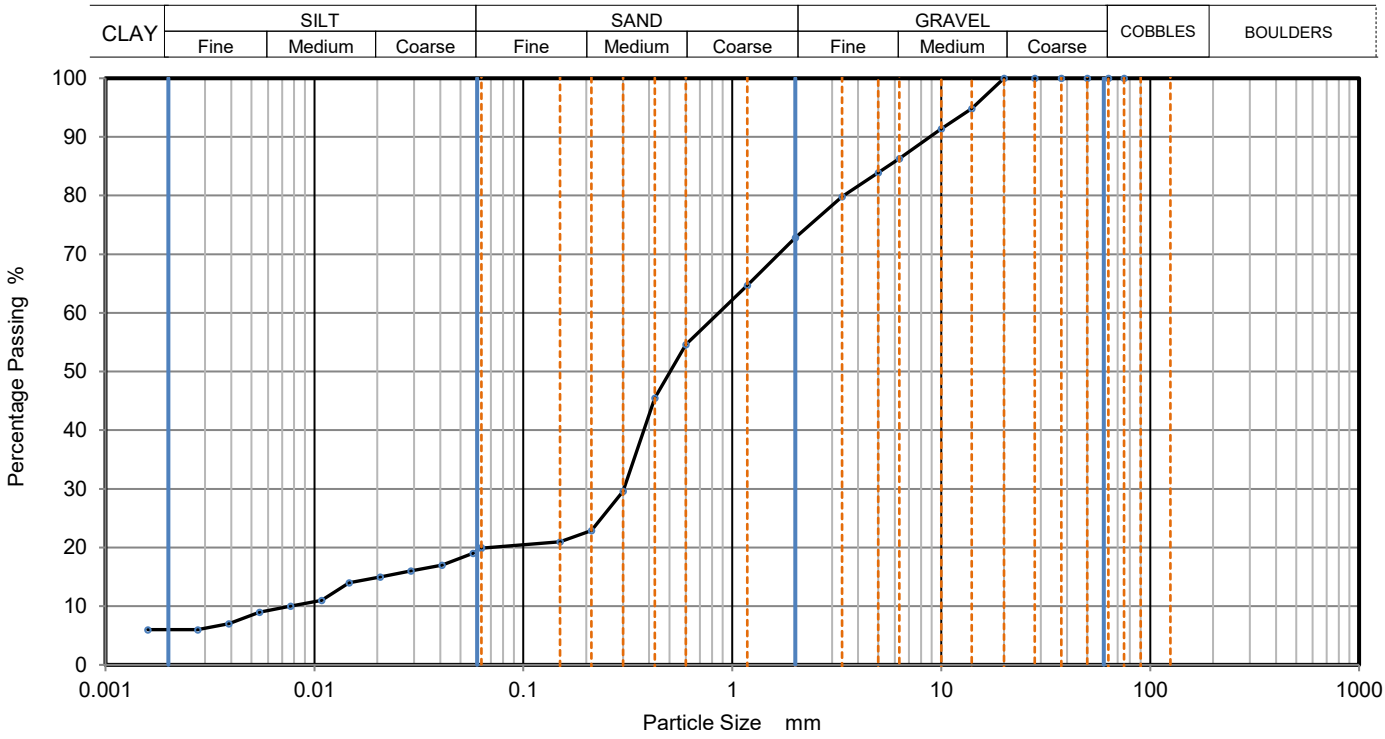
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-R03
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown very silty very gravelly medium SAND.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250311134



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	20
		0.0573	19
75	100	0.0408	17
63	100	0.0290	16
50	100	0.0206	15
37.5	100	0.0147	14
28	100	0.0108	11
20	100	0.0077	10
14	95	0.0055	9
10	91	0.0039	7
6.3	86	0.0028	6
5	84	0.0016	6
3.35	80		
2	73		
1.18	65		
0.6	55	Particle density (assumed)	
0.425	46	2.65 Mg/m3	
0.3	30		
0.212	23		
0.15	21		
0.063	20		

Dry Mass of sample, g	957

Sample Proportions	% dry mass
Very coarse	0
Gravel	27
Sand	53
Silt	14
Clay	6

Grading Analysis		
D100	mm	
D60	mm	0.862
D30	mm	0.303
D10	mm	0.00779
Uniformity Coefficient		110
Curvature Coefficient		14

Remarks

Preparation and testing in accordance with BS1377 unless noted below

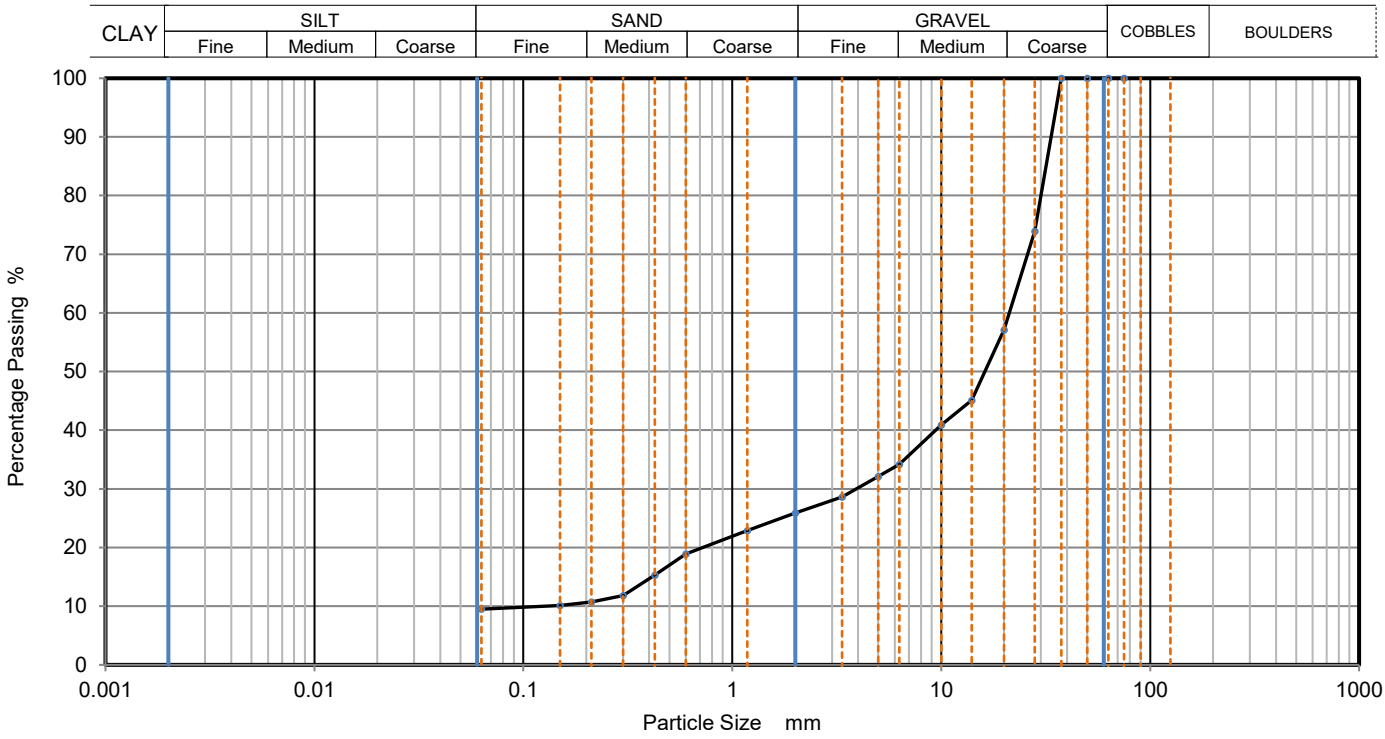
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-T01
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Greyish-brown silty sandy coarse GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250311142



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	74		
20	57		
14	45		
10	41		
6.3	34		
5	32		
3.35	29		
2	26		
1.18	23		
0.6	19		
0.425	15		
0.3	12		
0.212	11		
0.15	10		
0.063	10		

Dry Mass of sample, g	1057

Sample Proportions	% dry mass
Very coarse	0
Gravel	74
Sand	16
Fines <0.063mm	9

Grading Analysis		
D100	mm	
D60	mm	21.2
D30	mm	3.93
D10	mm	0.133
Uniformity Coefficient		160
Curvature Coefficient		5.5

Remarks

Preparation and testing in accordance with BS1377 unless noted below

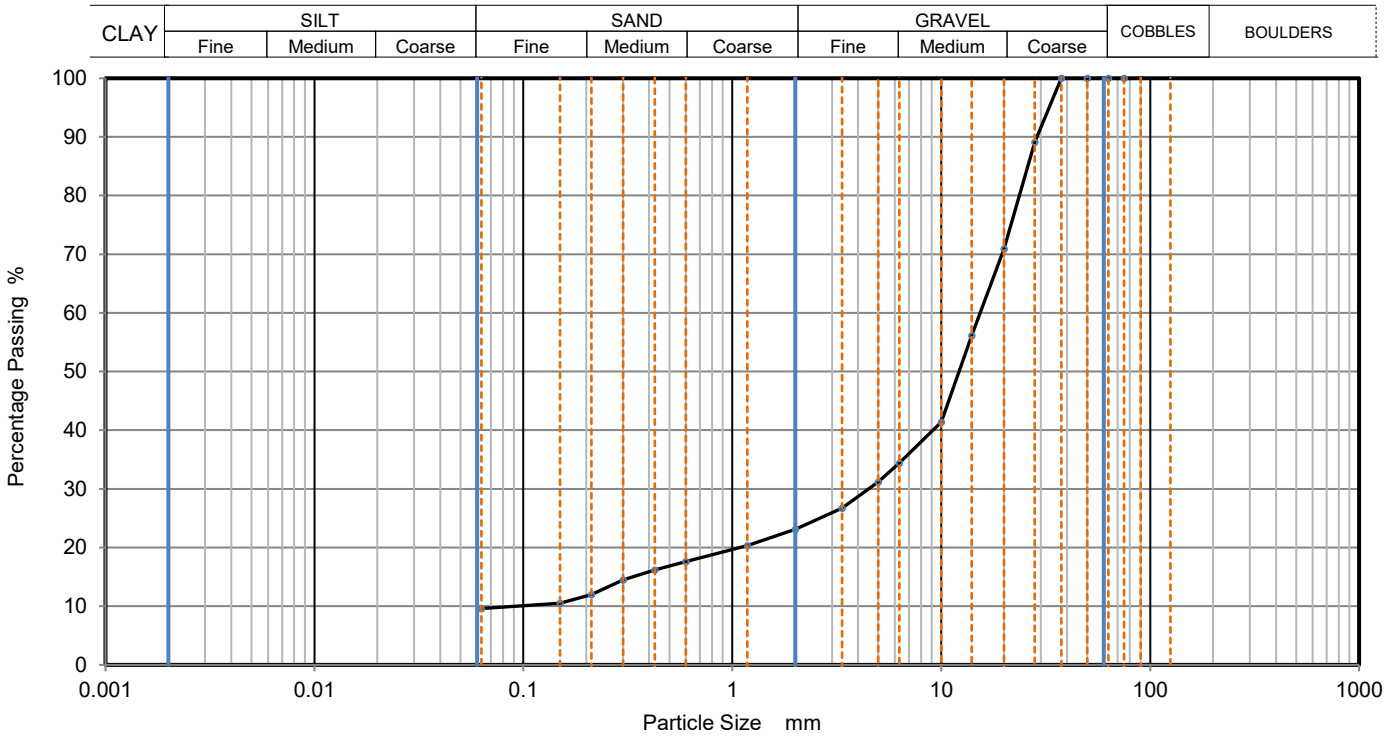
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-T02
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Greyish-brown silty sandy medium and coarse GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250311145



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	89		
20	71		
14	56		
10	41		
6.3	34		
5	31		
3.35	27		
2	23		
1.18	20		
0.6	18		
0.425	16		
0.3	15		
0.212	12		
0.15	11		
0.063	10		

Dry Mass of sample, g	860

Sample Proportions	% dry mass
Very coarse	0
Gravel	77
Sand	14
Fines <0.063mm	10

Grading Analysis		
D100	mm	
D60	mm	15.4
D30	mm	4.49
D10	mm	0.0949
Uniformity Coefficient		160
Curvature Coefficient		14

Remarks

Preparation and testing in accordance with BS1377 unless noted below

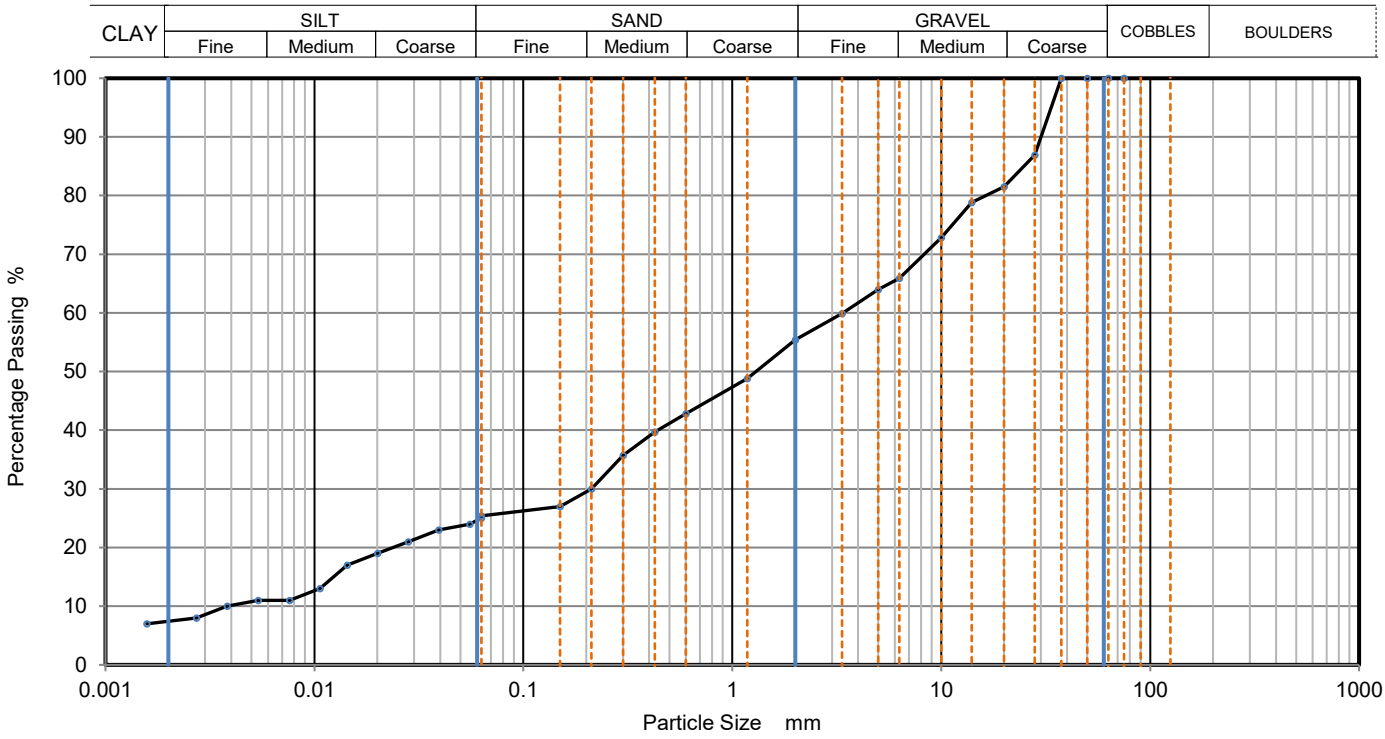
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Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-T03
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown very silty very sandy GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250311148



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	25
		0.0554	24
75	100	0.0394	23
63	100	0.0282	21
50	100	0.0200	19
37.5	100	0.0143	17
28	87	0.0106	13
20	82	0.0076	11
14	79	0.0054	11
10	73	0.0038	10
6.3	66	0.0027	8
5	64	0.0016	7
3.35	60		
2	55		
1.18	49		
0.6	43	Particle density (assumed)	
0.425	40	2.65	Mg/m3
0.3	36		
0.212	30		
0.15	27		
0.063	25		

Dry Mass of sample, g	695

Sample Proportions	% dry mass
Very coarse	0
Gravel	45
Sand	30
Silt	18
Clay	8

Grading Analysis		
D100	mm	
D60	mm	3.38
D30	mm	0.212
D10	mm	0.00419
Uniformity Coefficient		810
Curvature Coefficient		3.2

Remarks

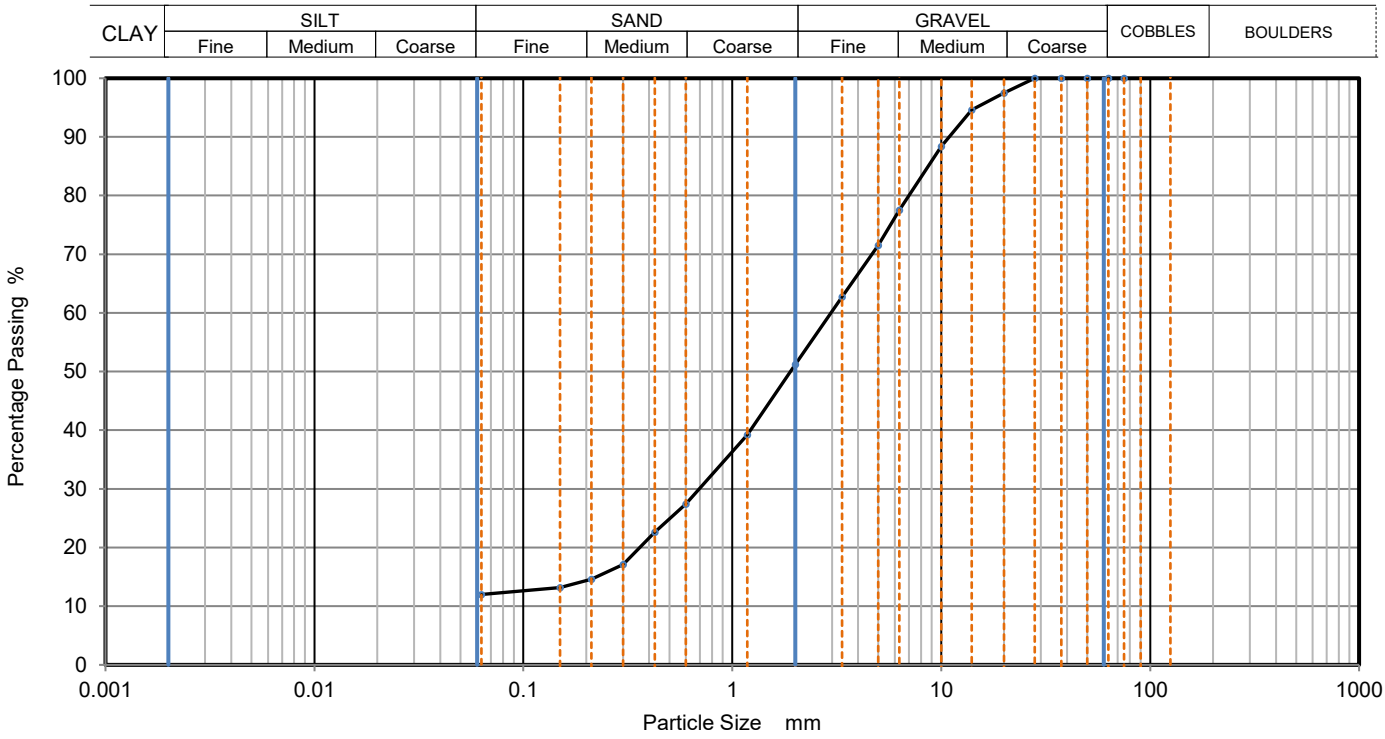
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-T03
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown silty very sandy fine and medium GRAVEL. Sand is coarse.			Depth, m	2.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250311150



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	95		
10	88		
6.3	78		
5	72		
3.35	63		
2	51		
1.18	39		
0.6	27		
0.425	23		
0.3	17		
0.212	15		
0.15	13		
0.063	12		

Dry Mass of sample, g	775

Sample Proportions	% dry mass
Very coarse	0
Gravel	49
Sand	39
Fines <0.063mm	12

Grading Analysis		
D100	mm	
D60	mm	2.97
D30	mm	0.696
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

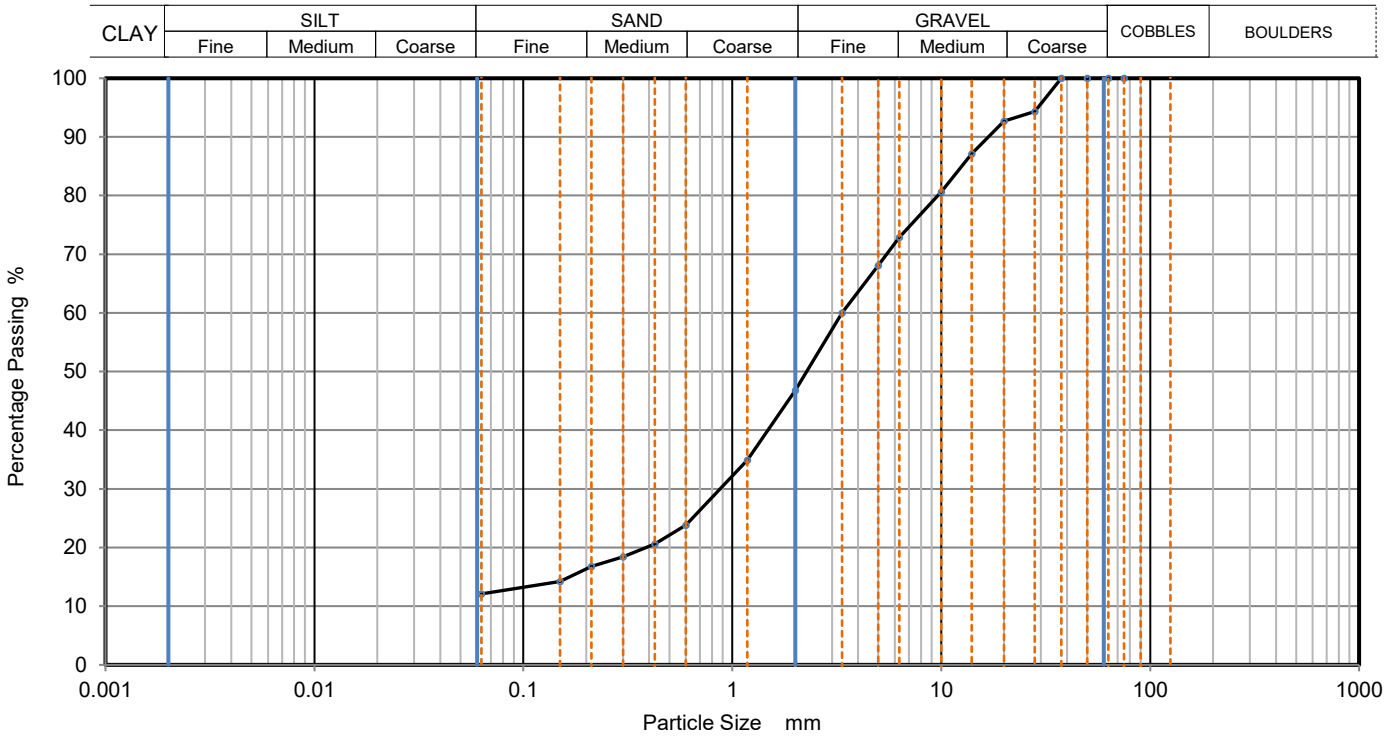
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Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-T03
Site Name	Lot 1, Lough Talt			Sample No.	5
Soil Description	Brown silty very sandy fine and medium GRAVEL. Sand is coarse.			Depth, m	4.00
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clause 9.2			KeyLAB ID	IDL120250311152



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
75	100		
63	100		
50	100		
37.5	100		
28	94		
20	93		
14	87		
10	81		
6.3	73		
5	68		
3.35	60		
2	47		
1.18	35		
0.6	24		
0.425	21		
0.3	18		
0.212	17		
0.15	14		
0.063	12		

Dry Mass of sample, g	754

Sample Proportions	% dry mass
Very coarse	0
Gravel	53
Sand	35
Fines <0.063mm	12

Grading Analysis		
D100	mm	
D60	mm	3.34
D30	mm	0.876
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

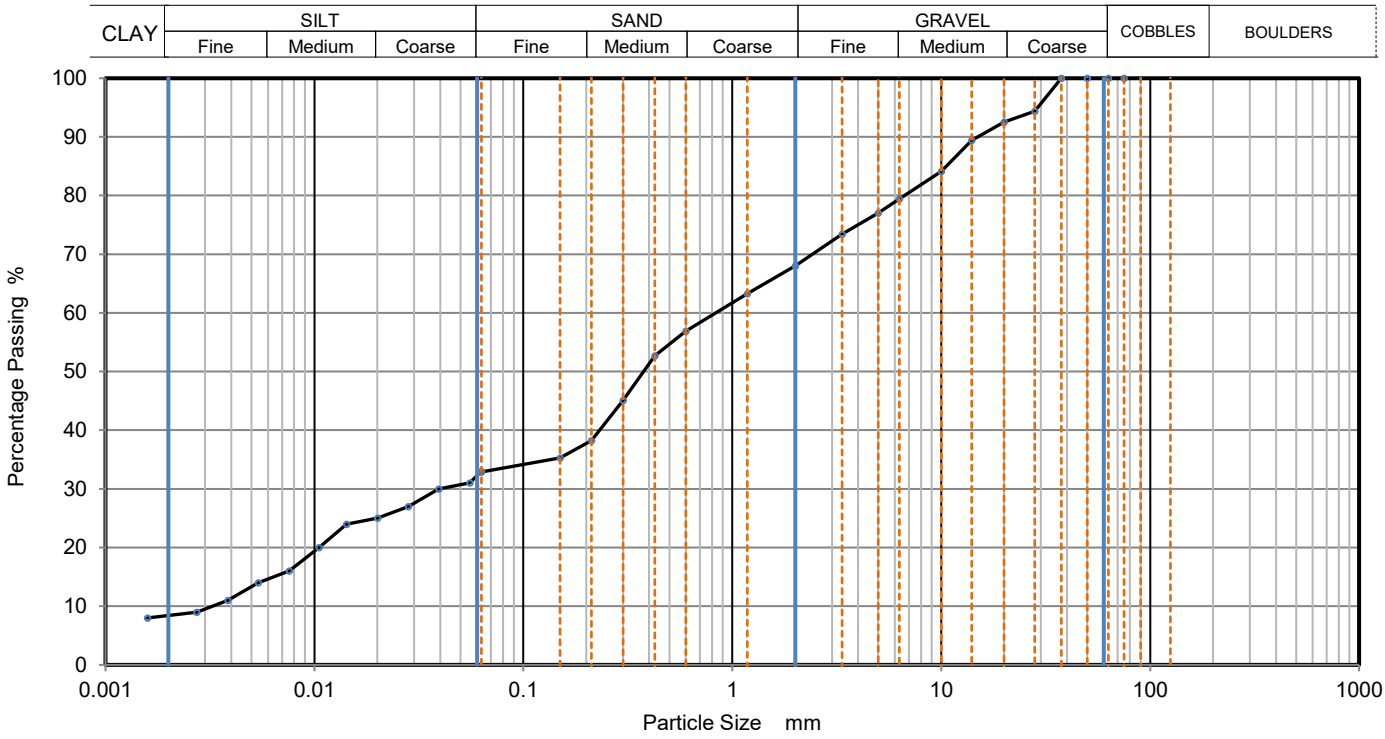
Operator	Checked	Approved	Sheet printed	
		Dympna Darcy B.Sc.	10/11/2025 16:32	1
				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-T04
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown very silty SAND and GRAVEL.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250311155



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	33
		0.0554	31
75	100	0.0394	30
63	100	0.0282	27
50	100	0.0200	25
37.5	100	0.0143	24
28	94	0.0105	20
20	93	0.0076	16
14	89	0.0054	14
10	84	0.0038	11
6.3	79	0.0027	9
5	77	0.0016	8
3.35	73		
2	68		
1.18	63		
0.6	57	Particle density (assumed)	
0.425	53	2.65 Mg/m3	
0.3	45		
0.212	38		
0.15	35		
0.063	33		

Dry Mass of sample, g	703

Sample Proportions	% dry mass
Very coarse	0
Gravel	32
Sand	35
Silt	24
Clay	9

Grading Analysis		
D100	mm	
D60	mm	0.833
D30	mm	0.0414
D10	mm	0.00312
Uniformity Coefficient		270
Curvature Coefficient		0.66

Remarks

Preparation and testing in accordance with BS1377 unless noted below

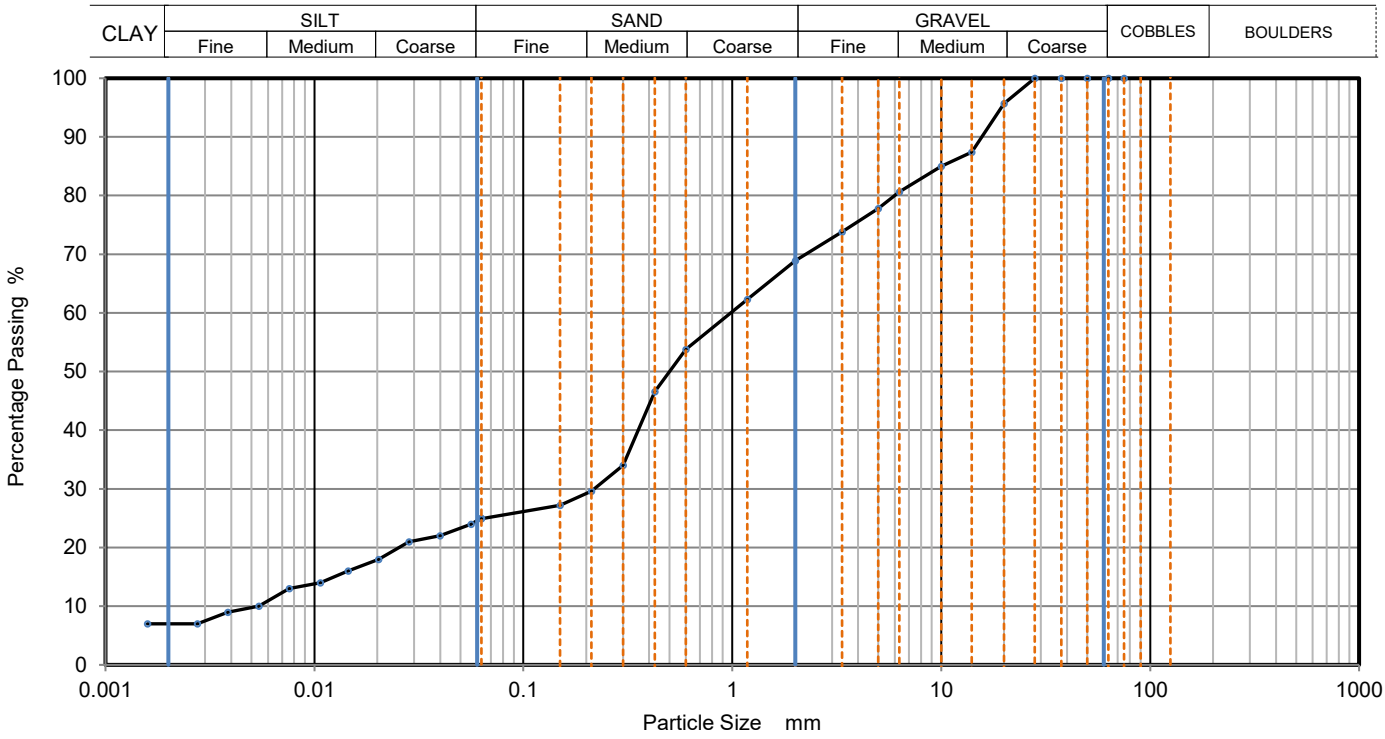
Operator	Checked	Approved	Sheet printed	
		Dympna Darcy B.Sc.	10/11/2025 16:32	**1** QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

PARTICLE SIZE DISTRIBUTION

				Job Ref	**2024SO105**
				Borehole/Pit No.	TP-T04
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown very silty very gravelly medium SAND.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL120250311157



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	25
		0.0561	24
75	100	0.0399	22
63	100	0.0284	21
50	100	0.0203	18
37.5	100	0.0145	16
28	100	0.0107	14
20	96	0.0076	13
14	87	0.0054	10
10	85	0.0039	9
6.3	81	0.0028	7
5	78	0.0016	7
3.35	74		
2	69		
1.18	62		
0.6	54	Particle density (assumed)	
0.425	47	2.65	Mg/m3
0.3	34		
0.212	30		
0.15	27		
0.063	25		

Dry Mass of sample, g	673

Sample Proportions	% dry mass
Very coarse	0
Gravel	31
Sand	44
Silt	18
Clay	7

Grading Analysis		
D100	mm	
D60	mm	0.982
D30	mm	0.219
D10	mm	0.00478
Uniformity Coefficient		210
Curvature Coefficient		10

Remarks

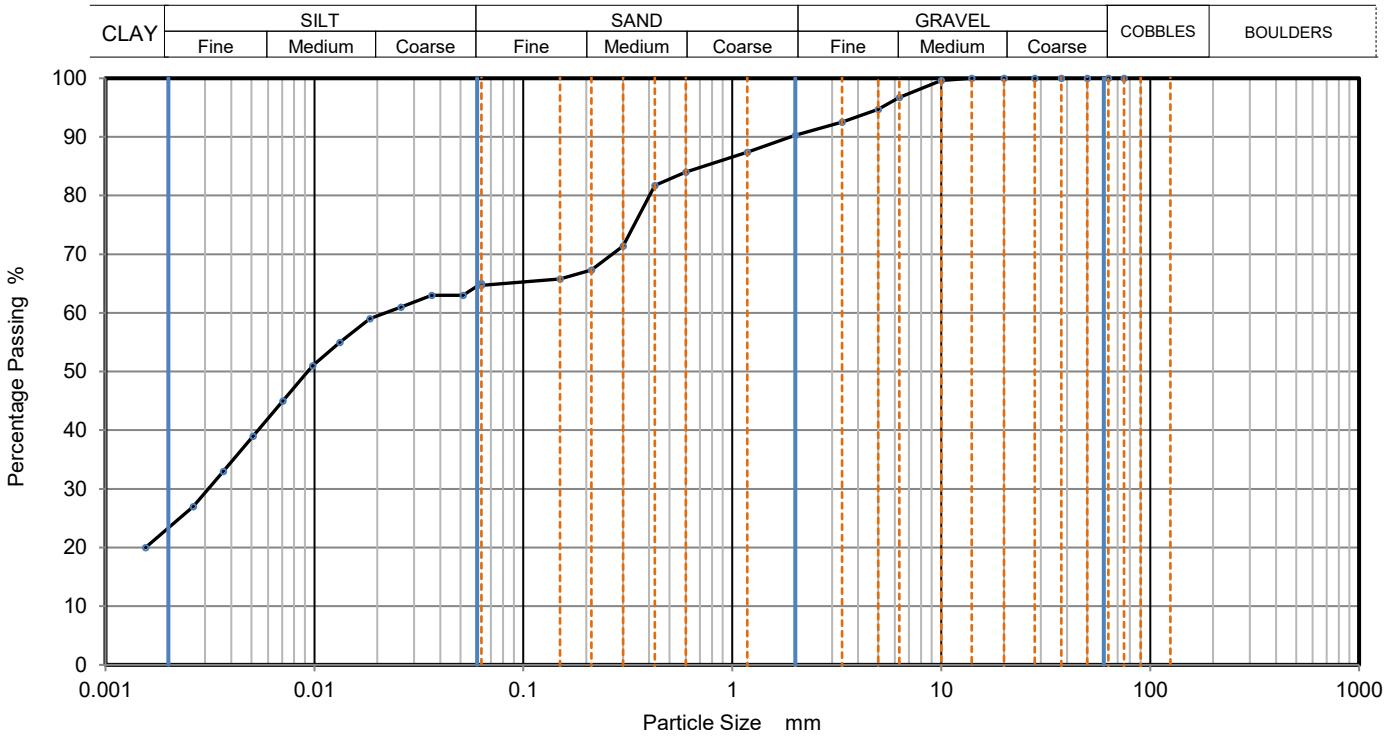
Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	Approved	Sheet printed	
		Dympna Darcy B.Sc.	10/11/2025 16:32	1
				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-WH01
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown slightly gravelly slightly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025022595



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	65
		0.0515	63
75	100	0.0364	63
63	100	0.0259	61
50	100	0.0185	59
37.5	100	0.0132	55
28	100	0.0098	51
20	100	0.0071	45
14	100	0.0051	39
10	100	0.0037	33
6.3	97	0.0026	27
5	95	0.0016	20
3.35	93		
2	90		
1.18	87		
0.6	84	Particle density (assumed)	
0.425	82	2.65 Mg/m3	
0.3	71		
0.212	67		
0.15	66		
0.063	65		

Dry Mass of sample, g	691

Sample Proportions	% dry mass
Very coarse	0
Gravel	10
Sand	26
Silt	41
Clay	23

Grading Analysis		
D100	mm	
D60	mm	0.0227
D30	mm	0.00304
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

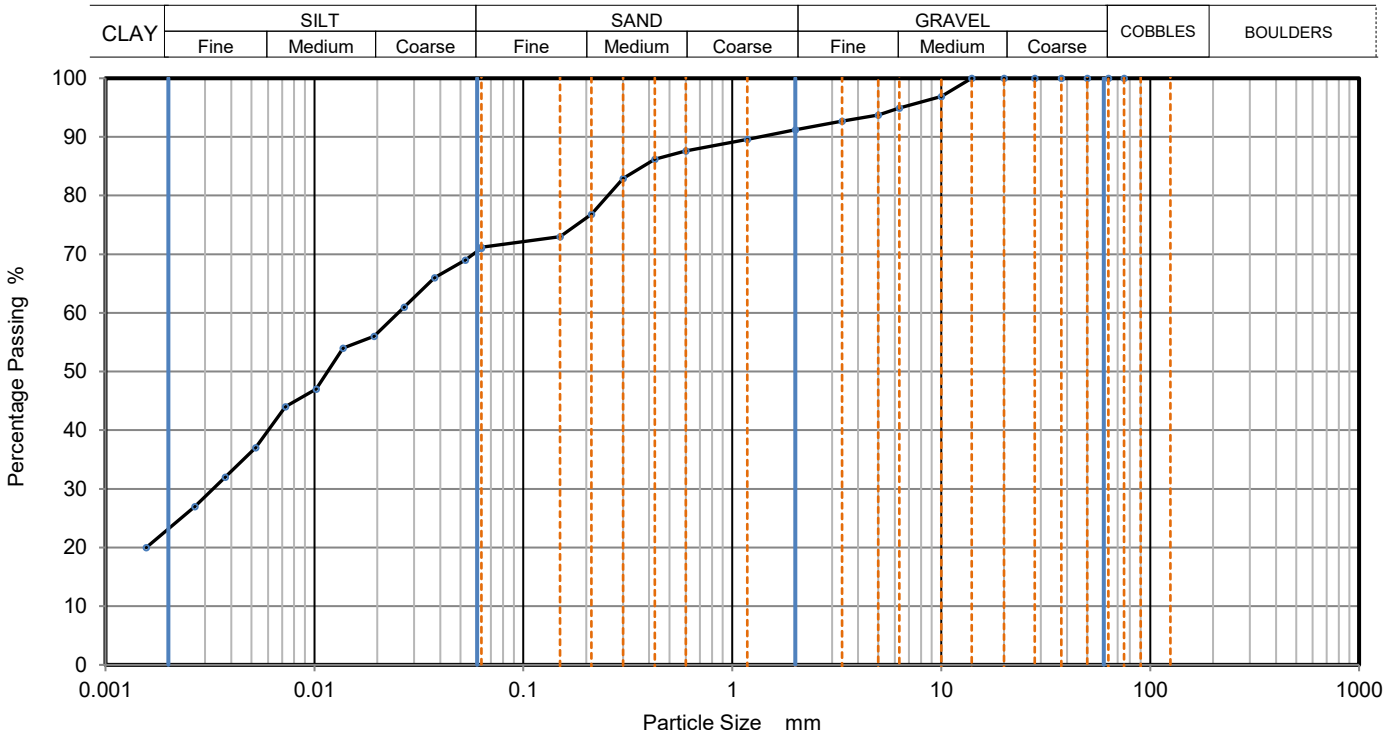
Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	Approved	Sheet printed	
		Dympna Darcy B.Sc.	10/11/2025 16:32	1
				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-WH01
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Dark brown slightly gravelly slightly sandy SILT.			Depth, m	1.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL12025022597



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	71
		0.0528	69
75	100	0.0376	66
63	100	0.0269	61
50	100	0.0193	56
37.5	100	0.0137	54
28	100	0.0102	47
20	100	0.0073	44
14	100	0.0052	37
10	97	0.0037	32
6.3	95	0.0027	27
5	94	0.0016	20
3.35	93		
2	91		
1.18	90		
0.6	88	Particle density (assumed)	
0.425	86	2.65 Mg/m3	
0.3	83		
0.212	77		
0.15	73		
0.063	71		

Dry Mass of sample, g	564

Sample Proportions	% dry mass
Very coarse	0
Gravel	9
Sand	20
Silt	48
Clay	23

Grading Analysis		
D100	mm	
D60	mm	0.0245
D30	mm	0.00328
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

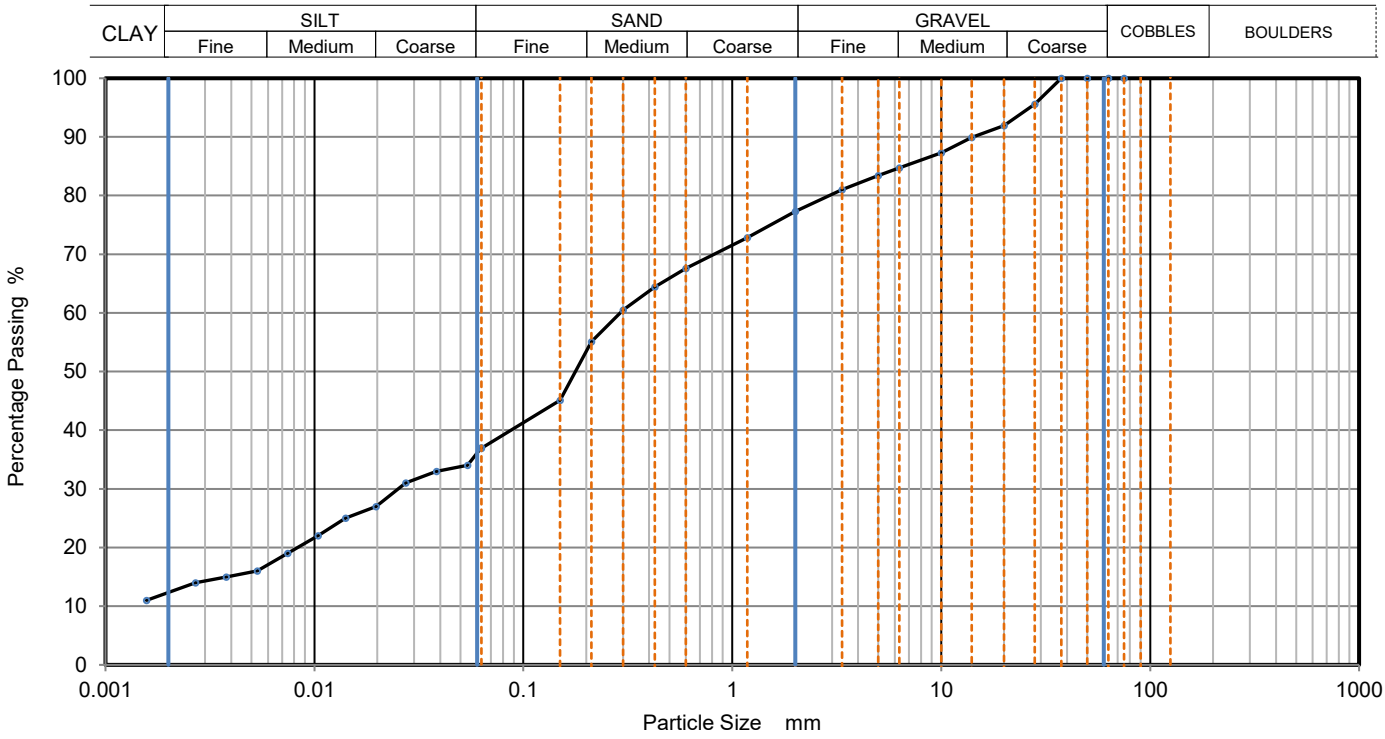
Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	Approved	Sheet printed	
		Dympna Darcy B.Sc.	10/11/2025 16:32	1
				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IRISH DRILLING LIMITED	**PARTICLE SIZE DISTRIBUTION**			Job Ref	**2024SO105**
				Borehole/Pit No.	TP-M102
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Light brown slightly gravelly sandy SILT.			Depth, m	0.50
Specimen Reference		Specimen Depth	m	Sample Type	B
Test Method	BS1377:Part 2:1990, clauses 9.2 and 9.5			KeyLAB ID	IDL1202511180



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
		0.0630	37
		0.0540	34
75	100	0.0384	33
63	100	0.0273	31
50	100	0.0197	27
37.5	100	0.0141	25
28	96	0.0104	22
20	92	0.0074	19
14	90	0.0053	16
10	87	0.0038	15
6.3	85	0.0027	14
5	83	0.0016	11
3.35	81		
2	77		
1.18	73		
0.6	68	Particle density (assumed)	
0.425	64	2.65	Mg/m3
0.3	61		
0.212	55		
0.15	45		
0.063	37		

Dry Mass of sample, g	742

Sample Proportions	% dry mass
Very coarse	0
Gravel	23
Sand	40
Silt	25
Clay	12

Grading Analysis		
D100	mm	
D60	mm	0.291
D30	mm	0.0244
D10	mm	
Uniformity Coefficient		
Curvature Coefficient		

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator	Checked	Approved	Sheet printed	
		Dympna Darcy B.Sc.	12/12/2025 15:08	1
				QC From No:R2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Irish Water		
11 November 2025		
From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
TP-LG2	0.50	1.00	ES		30/01/25										1	EnvLab 25/01249/1
TP-LG4	0.50	1.00	ES		30/01/25										1	EnvLab 25/01249/2
TP-LG7	0.50	1.00	ES		30/01/25										1	EnvLab 25/01249/3

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Certificate of Analysis

Report No.:	**25-01377-1**
Issue No.:	**1**
Date of Issue	**04/03/2025**
Customer Details:	Envirolab Ltd, 7 - 8 Sandpits Business Park, Mottram Road, Hyde, Greater Manchester, SK14 3AR, United Kingdom
Customer Contact:	Maleyka Owen-Agjef
Customer Order No.:	P0756091
Customer Reference:	Not Supplied
Quotation Reference:	Q25-03486 (Issue: 3)
Description:	3 geo samples
Date Received:	14/02/2025
Date Started:	14/02/2025
Date Completed:	26/02/2025
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **David Long, LIMS Manager**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

RPS Environmental Management Limited trading as RPS Mountainheath. Registered in England No. 01756175.
13 St Martins Way, Bedford, Bedfordshire, MK42 0LF. T +44 1462 480 400
A member of the RPS Group plc. Terms and conditions apply - copy on request

Results Summary

Report No.: 25-01377-1

Customer Reference: Not Supplied

Customer Order No: P0756091

Customer Sample No	**25/01249/1**	**25/01249/2**	**25/01249/3**
RPS Sample No	84685	84686	84687
Sample Type	**GEO**	**GEO**	**GEO**
Sample Matrix	SOIL	SOIL	SOIL
Sampling Date	14/02/2025	14/02/2025	14/02/2025

Determinand	CAS No	Codes	SOP	RL	Units			
methyl acrylate	96-33-3	N	G132	0.1	mg/kg AR	< 0.1 (T)	< 0.1 (T)	< 0.1 (T)

Deviating Samples

Report No.: 25-01377-1

Customer Reference: Not Supplied

Customer Order No: P0756091

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
84685	25/01249/1		14/02/2025	250 mL amber glass jar	**Yes**	No sampling time provided.
84686	25/01249/2		14/02/2025	250 mL amber glass jar	**Yes**	No sampling time provided.
84687	25/01249/3		14/02/2025	250 mL amber glass jar	**Yes**	No sampling time provided.

Report No.: 25-01377-1

Type	Matrix Code	Description
Food	CEREALPROD	Cereals, grains & products
Food	DRIEDFRUIT	Dried fruits
Food	FRIEDBAKED	Fried or baked food
Food	LEGUME	Legumes
Food	MEAT	Meat
Food	POWDERED	Powdered food
Food	PULSE	Pulses (dried legumes)
Food	VEGETABLES	Vegetables
Gas	TDTUBE	TD Tube
Gas	TENAX	Tenax Tube
Gas	TUBE	Tube
Gas	VAPOUR	Gas
Geological	SED_MAR	Marine Sediment
Geological	SED_RIV	River Sediment
Geological	SLUDG_SOL	Sludge (solid only)
Geological	SOIL	Soil
Liquid	BEVERAGE	Beverage
Liquid	BLOOD	Blood
Liquid	CONDENSATE	Condensate
Liquid	FOAM_LIQ	Liquid foam
Liquid	FORMULATN	Formula
Liquid	LEACHATE	Leachate
Liquid	OIL/GREASE	Oil or grease
Liquid	SLUDG_LIQ	Sludge (liquid only)
Liquid	SOLVENT	Solvent
Liquid	URINE	Urine
Sludge	SLUDG_WHL	Sludge for bulk route
Solid	BADGE	Badge
Solid	BEDDING	Bedding
Solid	BIOTA	Biota (general)
Solid	BIOTA_F	Biota (fish)
Solid	BIOTA_SF	Biota (shellfish)
Solid	CONSTRCTN	Construction materials
Solid	FABRIC	Fabrics & furnishing materials
Solid	FEED	Animal feed
Solid	FERTILISER	Fertiliser
Solid	FILTER	Filter
Solid	FOAM	Solid foam material
Solid	LATEX	Latex/Rubber
Solid	PACKAGING	Packaging material
Solid	PAPER	Paper
Solid	PLANT	Plant (vegetation)
Solid	POWDER	Powder
Solid	SWAB	Swab
Water	BAL	Ballast Water
Water	BIL	Bilge Water
Water	DW	Drinking Water
Water	EFFLUENT	Effluent
Water	GW	Ground Water
Water	INFLUENT	Influent
Water	MINEW	Mine Water
Water	MW	Mineral Water
Water	SALTW	Salt Water
Water	SW	Surface Water
Water	TW	Tap Water
Water	W	Unknown Water

Report No.: 25-01377-1

Key Code	Description
N	Not Accredited Test
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
UF	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
O	Marine Management Organisation (MMO) Validated
SN	Subcontracted to approved laboratory not accredited for the test
SU	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SIN	Subcontracted to internal RPS Group laboratory not accredited for the test
SIU	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
SIM	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
*	Modified standard method
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis
L (in results)	Result is outside normal limits

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 month (if frozen) from the issue date of this report
Waters	2 weeks from the issue date of this report
Other Liquids	1 month from the issue date of this report
Solids / Soils	1 month from the issue date of this report
Sediments	1 month from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

Soil Typing	Description
Type 1	Clay - Brown
Type 2	Clay - Grey/Black
Type 3	Sand
Type 4	Top Soil (Standard)
Type 5	Top Soil (High Peat)
Type 6	Made Ground (>50% Clay)
Type 7	Made Ground (>50% Sand)
Type 8	Made Ground (>50% Top Soil)
Type X	Other

Dev code	Description
D	No sampling date provided.
T	No sampling time provided.
Z	Temperature of samples exceeded in transit/storage.
V	Excessive headspace for volatile determinands.
P	Sample submitted without required preservative(s).
C	Incorrect container.
H	Holding time exceeded (sampling to extraction).
X	Holding time exceeded (sampling to receipt).

Note: Where the following information is included in this certificate, it has usually been supplied by the customer: Customer Sample ID, Sample Location, Sample Depth, Sampling Date and Sampling Time. The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

Final Test Report

Envirolab Job Number:	25/01249		
Issue Number:	1	Date:	19-Feb-25

Client: Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager:	Damien O'Reilly/IDL Lab
Project Name:	Lough Talt - 2024SO105
Project Ref:	Not specified
Order No:	PKB21191
Date Samples Received:	10-Feb-25
Date Instructions Received:	11-Feb-25
Date Analysis Completed:	19-Feb-25

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Richard Wong
Client Manager

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/01249/1				
Client Sample Number						Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				LG02				
Depth to Top								
Depth to Bottom								
Date Sampled								
Sample Type				Soil				
Sample Matrix Code				6E				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**5.80**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.13**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**19**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.003	**0.030**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.028	**0.280**	4	50	200
Chloride	A-T-026	N	N	2	**20**	800	15000	25000
Fluoride	A-T-026	N	N	0.3	**3.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	4	**37**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	6.2				
Conductivity (µS/cm)	A-T-037	N	N	16				
Mass Sample (kg)				0.216				
Dry Matter (%)	A-T-044	N	N	81.1				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/01249/2				
Client Sample Number								
Client Sample ID				LG04				
Depth to Top								
Depth to Bottom								
Date Sampled								
Sample Type				Soil				
Sample Matrix Code				6E				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.05**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**4.38**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.002	**0.020**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.001	**0.010**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.046	**0.460**	4	50	200
Chloride	A-T-026	N	N	2	**23**	800	15000	25000
Fluoride	A-T-026	N	N	0.3	**3.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	1	**11**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	60	**600**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.7				
Conductivity (µS/cm)	A-T-037	N	N	120				
Mass Sample (kg)				0.265				
Dry Matter (%)	A-T-044	N	N	66				

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Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/01249/3				
Client Sample Number								
Client Sample ID				LG07				
Depth to Top								
Depth to Bottom								
Date Sampled								
Sample Type				Soil				
Sample Matrix Code				6E				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.79**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.9**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	0.001	**0.010**	0.5	2	25
Barium	A-T-025	N	N	0.006	**0.060**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	0.001	**0.010**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.001	**0.010**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.003	**0.030**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.023	**0.230**	4	50	200
Chloride	A-T-026	N	N	2	**19**	800	15000	25000
Fluoride	A-T-026	N	N	0.6	**6.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	4	**37**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	6.2				
Conductivity (µS/cm)	A-T-037	N	N	19				
Mass Sample (kg)				0.245				
Dry Matter (%)	A-T-044	N	N	71.5				

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Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/01249
Issue Number: 1 **Date:** 04 March, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: Not specified
Order No: PKB21191
Date Samples Received: 10/02/25
Date Instructions Received: 11/02/25
Date Analysis Completed: 04/03/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/01249

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/01249/1	25/01249/2	25/01249/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LG02	LG04	LG07							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	6E	6E	6E							
% Moisture at <40C$_A$	21.9	29.3	23.6					% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	<0.1	<0.1					% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	5.80	6.05	7.79					pH	0.01	A-T-031s
Sulphate (acid soluble)$_D$$^{M\#}$	220	680	300					mg/kg	200	A-T-028s
Cyanide (total)$_A$$^{M\#}$	<1	<1	<1					mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2					mg/kg	0.2	A-T-050s
Sulphide$_A$	<5	<5	<5					mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$$^{M\#}$	<5	<5	<5					mg/kg	5	A-T-029s
Total Organic Carbon$_D$$^{M\#}$	2.13	4.38	1.90					% w/w	0.08	A-T-032s
Antimony$_D$	<5	<5	<5					mg/kg	5	A-T-024s
Arsenic$_D$$^{M\#}$	2	5	6					mg/kg	1	A-T-024s
Barium$_D$$^{\#}$	7	10	14					mg/kg	3	A-T-024s
Boron (water soluble)$_D$$^{M\#}$	<1.0	<1.0	<1.0					mg/kg	1	A-T-027s
Cadmium$_D$$^{M\#}$	<0.5	<0.5	<0.5					mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	2	3	6					mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	3	6	11					mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1					mg/kg	1	A-T-040s
Chromium (trivalent)	3	6	11					mg/kg	1	Calc
Lead$_D$$^{M\#}$	5	10	12					mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17					mg/kg	0.17	A-T-024s
Molybdenum$_D$$^{M\#}$	<1	<1	<1					mg/kg	1	A-T-024s
Nickel$_D$$^{M\#}$	2	3	11					mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	<1	<1					mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	3	7	24					mg/kg	1	A-T-024s
Mineral Oil (>C10-C40)$_A$	19	<10	<10					mg/kg	10	A-T-007s
Methyl Acrylate$_A$	Appended	Appended	Appended					mg/kg	0.1	Subcon RPS MH

Envirolab Job Number: 25/01249

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/01249/1	25/01249/2	25/01249/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LG02	LG04	LG07							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	6E	6E	6E							
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD							A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-							A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-							A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A							A-T-045

Envirolab Job Number: 25/01249

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/01249/1	25/01249/2	25/01249/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LG02	LG04	LG07							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	6E	6E	6E							
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02	<0.02	<0.02					mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04					mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04	<0.04	<0.04					mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05	<0.05	<0.05					mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05	<0.05	<0.05					mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	<0.07	<0.07					mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06	<0.06	<0.06					mg/kg	0.06	A-T-019s
Coronene$_A$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04					mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.08	<0.08	<0.08					mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03	<0.03	<0.03					mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	<0.03					mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.03	<0.03	<0.03					mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07	<0.07	<0.07					mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	<0.08	<0.08	<0.08					mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/01249

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/01249/1	25/01249/2	25/01249/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LG02	LG04	LG07							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	6E	6E	6E							
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.003	<0.003	<0.003					mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002					mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004					mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007					mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006					mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004					mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004					mg/kg	0.004	A-T-004s
Total Speciated PCB-$EC7_A^{M\#}$	<0.007	<0.007	<0.007					mg/kg	0.003	A-T-004s

Envirolab Job Number: 25/01249

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/01249/1	25/01249/2	25/01249/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LG02	LG04	LG07							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	6E	6E	6E							
Envirolab WAC A (Leachate only) 10:1										
Mass Sample (1 stage WAC)	0.216	0.265	0.245					Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	81.1	66.0	71.5					% w/w	0.1	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1					mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1					mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	3					mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	12	4	9					mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	35	18	18					mg/kg	1	A-T-055s
Total Aliphatics$_A$	51	25	33					mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	<1					mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	<1					mg/kg	1	A-T-055s
Aro >C12-C16$_A$	1	1	3					mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	4	3	4					mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	4	3	3					mg/kg	1	A-T-055s
Aro >C35-C40$_A$	3	3	1					mg/kg	1	A-T-055s
Total Aromatics$_A$	12	10	10					mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	63	35	43					mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01					mg/kg	0.01	A-T-022s
Ali >C35-C40$_A$	5	3	3					mg/kg	1	A-T-055s

Envirolab Job Number: 25/01249

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/01249/1	25/01249/2	25/01249/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LG02	LG04	LG07							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	6E	6E	6E							
Ammoniacal nitrogen as N (leachable)$_A$	<0.05	<0.05	<0.05					mg/l	0.05	A-T-033w

Envirolab Job Number: 25/01249

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/01249/1	25/01249/2	25/01249/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LG02	LG04	LG07							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	6E	6E	6E							
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*	*	*							A-T-001
pH (10:1 leachable)$_A$	6.20	7.74	6.17					pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	16	120	19					µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	<20	60	<20					mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	2.03	2.25	1.86					mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	0.28	0.33	0.55					mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	3.71	1.10	3.74					mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	0.01	0.01	0.01					mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	<2.0	<2.0	<2.0					mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001	<0.001	<0.001					mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	<0.001	<0.001	0.001					mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.003	0.002	0.006					mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001	<0.001	<0.001					mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	<0.004	<0.004	<0.004					mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	<0.001	<0.001	0.001					mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	<0.001	0.001	0.003					mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005	<0.0005	<0.0005					mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	<0.001	<0.001	0.001					mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	<0.002	<0.002	<0.002					mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001	<0.001	<0.001					mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.028	0.046	0.023					mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01					mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	<0.01	<0.01	0.01					mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.03	0.02	0.06					mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01					mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	20	23	19					mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	<0.01	<0.01	0.01					mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	<0.04	<0.04	<0.04					mg/kg	0.04	Calc-no stones
DOC (10:1 cumulative mg/kg)	<200	<200	<200					mg/kg	200	Calc-no stones
Fluoride (10:1 cumulative mg/kg)	3	3	6					mg/kg	1	Calc-no stones

Envirolab Job Number: 25/01249

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/01249/1	25/01249/2	25/01249/3					Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	LG02	LG04	LG07							
Depth to Top										
Depth To Bottom										
Date Sampled										
Sample Type	SOIL	SOIL	SOIL							
Sample Matrix Code	6E	6E	6E							
Lead (10:1 cumulative mg/kg)	<0.01	0.01	0.03					mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005	<0.005	<0.005					mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	<0.01	<0.01	0.01					mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	<0.02	<0.02	<0.02					mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	0.1	0.1	0.1					mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01					mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	37	11	37					mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	<200	600	<200					mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.28	0.46	0.23					mg/kg	0.02	Calc-no stones

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.
Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). "TRACE" will be reported as a quantification result.
PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/01249

Date Received: 11/02/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 7.4

Clients Project No:

Lab Sample ID	25/01249/1	25/01249/2	25/01249/3
Client Sample No			
Client Sample ID/Depth	LG02	LG04	LG07
Date Sampled			
Deviation Code			
E (no date)	✓	✓	✓

Key
E (no date) *No sampling date provided (all results affected if not provided)*

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/01249/1	25/01249/2	25/01249/3
Client Sample No			
Client Sample ID/Depth	LG02	LG04	LG07
Date Sampled			
A-T-004s	14/02/2025	14/02/2025	14/02/2025
A-T-007s	14/02/2025	14/02/2025	14/02/2025
A-T-019s	17/02/2025	17/02/2025	17/02/2025
A-T-022s	13/02/2025	13/02/2025	13/02/2025
A-T-024s	17/02/2025	17/02/2025	17/02/2025
A-T-025w	19/02/2025	19/02/2025	19/02/2025
A-T-026w	19/02/2025	19/02/2025	19/02/2025
A-T-026w (F)	19/02/2025	19/02/2025	19/02/2025
A-T-027s	19/02/2025	19/02/2025	19/02/2025
A-T-028s	18/02/2025	18/02/2025	18/02/2025
A-T-029s	17/02/2025	17/02/2025	17/02/2025
A-T-031s	18/02/2025	18/02/2025	18/02/2025
A-T-031w	19/02/2025	19/02/2025	19/02/2025
A-T-032s	17/02/2025	18/02/2025	17/02/2025
A-T-032w	19/02/2025	19/02/2025	19/02/2025
A-T-033w	14/02/2025	14/02/2025	14/02/2025
A-T-037w	19/02/2025	19/02/2025	19/02/2025
A-T-040s	17/02/2025	17/02/2025	17/02/2025
A-T-042sTCN	14/02/2025	14/02/2025	14/02/2025
A-T-043-s	17/02/2025	17/02/2025	17/02/2025
A-T-044	17/02/2025	17/02/2025	17/02/2025
A-T-045	12/02/2025	12/02/2025	12/02/2025
A-T-050s	14/02/2025	14/02/2025	14/02/2025
A-T-050w	19/02/2025	19/02/2025	19/02/2025
A-T-055s	13/02/2025	13/02/2025	13/02/2025
Calc	17/02/2025	17/02/2025	17/02/2025
Calc-As Recd	13/02/2025	13/02/2025	13/02/2025
Calc-no stones	19/02/2025	19/02/2025	19/02/2025
Probe (w)	19/02/2025	19/02/2025	19/02/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Irish Water		
11 November 2025		
From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
TP-LG1	0.50	1.00	ES		06/02/25										1	EnvLab 25/01492/1
TP-LG6	0.40	0.80	ES		06/02/25										1	EnvLab 25/01492/2
TP-LG8	0.40	0.80	ES		06/02/25										1	EnvLab 25/01492/3
TP-LR6	0.50	1.00	ES		07/02/25										1	EnvLab 25/01492/4
TP-LR4	0.50	1.00	ES		07/02/25										1	EnvLab 25/01492/5
TP-LR2	0.50	1.00	ES		10/02/25										1	EnvLab 25/01492/6

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Certificate of Analysis

Report No.:	**25-01490-1**
Issue No.:	**1**
Date of Issue	**27/02/2025**
Customer Details:	Envirolab Ltd, 7 - 8 Sandpits Business Park, Mottram Road, Hyde, Greater Manchester, SK14 3AR, United Kingdom
Customer Contact:	Maleyka Owen-Agjef
Customer Order No.:	PO756133
Customer Reference:	Not Supplied
Quotation Reference:	Q25-03486 (Issue: 3)
Description:	6 geo samples
Date Received:	19/02/2025
Date Started:	19/02/2025
Date Completed:	27/02/2025
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **David Long, LIMS Manager**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

RPS Environmental Management Limited trading as RPS Mountainheath. Registered in England No. 01756175.
13 St Martins Way, Bedford, Bedfordshire, MK42 0LF. T +44 1462 480 400
A member of the RPS Group plc. Terms and conditions apply - copy on request

Results Summary

Report No.: 25-01490-1

Customer Reference: Not Supplied

Customer Order No: PO756133

Customer Sample No	25/01492/1	25/01492/2	25/01492/3	25/01492/4	25/01492/5	25/01492/6
RPS Sample No	84953	84954	84955	84956	84957	84958
Sample Type	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**
Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	06/02/2025	06/02/2025	06/02/2025	06/02/2025	06/02/2025	06/02/2025

Determinand	CAS No	Codes	SOP	RL	Units						
methyl acrylate	96-33-3	N	G132	0.1	mg/kg AR	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Deviating Samples

Report No.: 25-01490-1

Customer Reference: Not Supplied

Customer Order No: PO756133

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
84953	25/01492/1		06/02/2025	100 mL amber glass jar	No	
84954	25/01492/2		06/02/2025	100 mL amber glass jar	No	
84955	25/01492/3		06/02/2025	100 mL amber glass jar	No	
84956	25/01492/4		06/02/2025	100 mL amber glass jar	No	
84957	25/01492/5		06/02/2025	100 mL amber glass jar	No	
84958	25/01492/6		06/02/2025	100 mL amber glass jar	No	

Report No.: 25-01490-1

Type	Matrix Code	Description
Food	CEREALPROD	Cereals, grains & products
Food	DRIEDFRUIT	Dried fruits
Food	FRIEDBAKED	Fried or baked food
Food	LEGUME	Legumes
Food	MEAT	Meat
Food	POWDERED	Powdered food
Food	PULSE	Pulses (dried legumes)
Food	VEGETABLES	Vegetables
Gas	TDTUBE	TD Tube
Gas	TENAX	Tenax Tube
Gas	TUBE	Tube
Gas	VAPOUR	Gas
Geological	SED_MAR	Marine Sediment
Geological	SED_RIV	River Sediment
Geological	SLUDG_SOL	Sludge (solid only)
Geological	SOIL	Soil
Liquid	BEVERAGE	Beverage
Liquid	BLOOD	Blood
Liquid	CONDENSATE	Condensate
Liquid	FOAM_LIQ	Liquid foam
Liquid	FORMULATN	Formula
Liquid	LEACHATE	Leachate
Liquid	OIL/GREASE	Oil or grease
Liquid	SLUDG_LIQ	Sludge (liquid only)
Liquid	SOLVENT	Solvent
Liquid	URINE	Urine
Sludge	SLUDG_WHL	Sludge for bulk route
Solid	BADGE	Badge
Solid	BEDDING	Bedding
Solid	BIOTA	Biota (general)
Solid	BIOTA_F	Biota (fish)
Solid	BIOTA_SF	Biota (shellfish)
Solid	CONSTRCTN	Construction materials
Solid	FABRIC	Fabrics & furnishing materials
Solid	FEED	Animal feed
Solid	FERTILISER	Fertiliser
Solid	FILTER	Filter
Solid	FOAM	Solid foam material
Solid	LATEX	Latex/Rubber
Solid	PACKAGING	Packaging material
Solid	PAPER	Paper
Solid	PLANT	Plant (vegetation)
Solid	POWDER	Powder
Solid	SWAB	Swab
Water	BAL	Ballast Water
Water	BIL	Bilge Water
Water	DW	Drinking Water
Water	EFFLUENT	Effluent
Water	GW	Ground Water
Water	INFLUENT	Influent
Water	MINEW	Mine Water
Water	MW	Mineral Water
Water	SALTW	Salt Water
Water	SW	Surface Water
Water	TW	Tap Water
Water	W	Unknown Water

Report No.: 25-01490-1

Key Code	Description
N	Not Accredited Test
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
UF	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
O	Marine Management Organisation (MMO) Validated
SN	Subcontracted to approved laboratory not accredited for the test
SU	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SIN	Subcontracted to internal RPS Group laboratory not accredited for the test
SIU	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
SIM	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
*	Modified standard method
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis
L (in results)	Result is outside normal limits

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 month (if frozen) from the issue date of this report
Waters	2 weeks from the issue date of this report
Other Liquids	1 month from the issue date of this report
Solids / Soils	1 month from the issue date of this report
Sediments	1 month from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

Soil Typing	Description
Type 1	Clay - Brown
Type 2	Clay - Grey/Black
Type 3	Sand
Type 4	Top Soil (Standard)
Type 5	Top Soil (High Peat)
Type 6	Made Ground (>50% Clay)
Type 7	Made Ground (>50% Sand)
Type 8	Made Ground (>50% Top Soil)
Type X	Other

Dev code	Description
D	No sampling date provided.
T	No sampling time provided.
Z	Temperature of samples exceeded in transit/storage.
V	Excessive headspace for volatile determinands.
P	Sample submitted without required preservative(s).
C	Incorrect container.
H	Holding time exceeded (sampling to extraction).
X	Holding time exceeded (sampling to receipt).

Note: Where the following information is included in this certificate, it has usually been supplied by the customer: Customer Sample ID, Sample Location, Sample Depth, Sampling Date and Sampling Time. The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

Final Test Report

Envirolab Job Number:	25/01492		
Issue Number:	1	Date:	24-Feb-25

Client: Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager:	Damien O'Reilly/Dympna Darcy/Ronan Killeen
Project Name:	Lough Talt - 2024SO105
Project Ref:	N/A
Order No:	PKB21191
Date Samples Received:	17-Feb-25
Date Instructions Received:	17-Feb-25
Date Analysis Completed:	24-Feb-25

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Danielle Brierley
Client Services Supervisor

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/01492/1				
Client Sample Number								
Client Sample ID				TPLG01		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				06/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.64**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.85**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<20**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	0.001	**0.010**	0.5	2	25
Barium	A-T-025	N	N	0.004	**0.040**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	0.001	**0.010**	0.5	10	70
Copper	A-T-025	N	N	0.007	**0.070**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.003	**0.030**	0.5	10	30
Nickel	A-T-025	N	N	0.002	**0.020**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.034	**0.340**	4	50	200
Chloride	A-T-026	N	N	2	**16**	800	15000	25000
Fluoride	A-T-026	N	N	<0.10	**<1**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	96	**960**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.8				
Conductivity (µS/cm)	A-T-037	N	N	193				
Mass Sample (kg)				0.244				
Dry Matter (%)	A-T-044	N	N	71.7				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/01492/2				
Client Sample Number								
Client Sample ID				TPLG06				
Depth to Top				0.4				
Depth to Bottom				0.80				
Date Sampled				06/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
						Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**5.88**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.07**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1** mg/l	**10:1** mg/kg	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.006	**0.060**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.004	**0.040**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.030	**0.300**	4	50	200
Chloride	A-T-026	N	N	4	**38**	800	15000	25000
Fluoride	A-T-026	N	N	<0.10	**<1**	10	150	500
Sulphate as SO_4	A-T-026	N	N	16	**164**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	6.1				
Conductivity (µS/cm)	A-T-037	N	N	11				
Mass Sample (kg)				0.237				
Dry Matter (%)	A-T-044	N	N	73.9				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/01492/3				
Client Sample Number								
Client Sample ID				TPLG08				
Depth to Top				0.4				
Depth to Bottom				0.80				
Date Sampled				06/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6A				
						Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.37**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.96**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.007	**0.070**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	0.005	**0.050**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.002	**0.020**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.032	**0.320**	4	50	200
Chloride	A-T-026	N	N	2	**18**	800	15000	25000
Fluoride	A-T-026	N	N	<0.10	**<1**	10	150	500
Sulphate as SO_4	A-T-026	N	N	6	**63**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	6.3				
Conductivity (µS/cm)	A-T-037	N	N	12				
Mass Sample (kg)				0.24				
Dry Matter (%)	A-T-044	N	N	72.9				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/01492/4				
Client Sample Number								
Client Sample ID				TPLR06				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				07/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6A				
						Inert Waste Landfill	**Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill**	**Hazardous Waste Landfill**
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.94**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.39**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**15**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.005	**0.050**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.001	**0.010**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.015	**0.150**	4	50	200
Chloride	A-T-026	N	N	2	**16**	800	15000	25000
Fluoride	A-T-026	N	N	0.6	**6.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	67	**670**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.9				
Conductivity (µS/cm)	A-T-037	N	N	134				
Mass Sample (kg)				0.228				
Dry Matter (%)	A-T-044	N	N	76.7				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/01492/5				
Client Sample Number								
Client Sample ID				TPLR04				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				07/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AB				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.10**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.96**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**19**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.004	**0.040**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.002	**0.020**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.014	**0.140**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	0.7	**7.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	53	**530**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.9				
Conductivity (µS/cm)	A-T-037	N	N	106				
Mass Sample (kg)				0.216				
Dry Matter (%)	A-T-044	N	N	81.1				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/01492/6				
Client Sample Number								
Client Sample ID				TPLR02				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				10/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
						Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.90**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.56**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1** mg/l	**10:1** mg/kg	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.009	**0.090**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.003	**0.030**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.018	**0.180**	4	50	200
Chloride	A-T-026	N	N	2	**18**	800	15000	25000
Fluoride	A-T-026	N	N	0.3	**3.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	3	**25**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	21	**210**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.3				
Conductivity (µS/cm)	A-T-037	N	N	42				
Mass Sample (kg)				0.234				
Dry Matter (%)	A-T-044	N	N	74.7				

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Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/01492
Issue Number: 1 **Date:** 27 February, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/Dympna Darcy/Ronan Killeen
Project Name: Lough Talt - 2024SO105
Project Ref: N/A
Order No: PKB21191
Date Samples Received: 17/02/25
Date Instructions Received: 17/02/25
Date Analysis Completed: 27/02/25

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 25/01492

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/01492/1	25/01492/2	25/01492/3	25/01492/4	25/01492/5	25/01492/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG01	TPLG06	TPLG08	TPLR06	TPLR04	TPLR02				
Depth to Top	0.50	0.40	0.40	0.50	0.50	0.50				
Depth To Bottom	1.00	0.80	0.80	1.00	1.00	1.00				
Date Sampled	06-Feb-25	06-Feb-25	06-Feb-25	07-Feb-25	07-Feb-25	10-Feb-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6A	6AE	6A	6A	6AB	6AE				
% Moisture at <40C$_A$	24.2	27.7	27.0	19.1	16.7	27.0		% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	7.64	5.88	6.37	7.94	8.10	7.90		pH	0.01	A-T-031s
Sulphate (acid soluble)$_D$$^{M\#}$	<200	310	330	420	400	<400		mg/kg	200	A-T-028s
Cyanide (total)$_A$$^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Sulphide$_A$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$$^{M\#}$	24	<5	<5	<5	<5	<5		mg/kg	5	A-T-029s
Total Organic Carbon$_D$$^{M\#}$	0.85	1.07	0.96	1.39	0.96	0.56		% w/w	0.08	A-T-032s
Antimony$_D$	<5	<5	<5	<5	<5	<10		mg/kg	5	A-T-024s
Arsenic$_D$$^{M\#}$	7	13	14	3	4	2		mg/kg	1	A-T-024s
Barium$_D$$^{\#}$	11	12	16	28	36	62		mg/kg	3	A-T-024s
Boron (water soluble)$_D$$^{M\#}$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		mg/kg	1	A-T-027s
Cadmium$_D$$^{M\#}$	<0.5	<0.5	0.5	0.6	0.6	1.4		mg/kg	0.5	A-T-024s
Copper$_D$$^{M\#}$	8	6	9	13	12	13		mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	10	15	18	11	11	13		mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Chromium (trivalent)	10	15	18	11	11	13		mg/kg	1	Calc
Lead$_D$$^{M\#}$	9	11	13	10	9	15		mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17	<0.17	<0.17	<0.34		mg/kg	0.17	A-T-024s
Molybdenum$_D$$^{M\#}$	<1	1	2	<1	<1	<2		mg/kg	1	A-T-024s
Nickel$_D$$^{M\#}$	21	17	30	24	25	42		mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	<1	<1	<1	<1	<2		mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	51	40	39	38	41	36		mg/kg	1	A-T-024s
Mineral Oil (>C10-C40)$_A$	<20	<10	<10	15	19	<10		mg/kg	10	A-T-007s
Ammoniacal nitrogen as N (leachable)$_A$	0.16	<0.05	<0.05	<0.05	<0.05	<0.05		mg/l	0.05	A-T-033w
Methyl Acrylate$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		mg/kg	0.1	Subcon RPS MH

Envirolab Job Number: 25/01492

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/01492/1	25/01492/2	25/01492/3	25/01492/4	25/01492/5	25/01492/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG01	TPLG06	TPLG08	TPLR06	TPLR04	TPLR02				
Depth to Top	0.50	0.40	0.40	0.50	0.50	0.50				
Depth To Bottom	1.00	0.80	0.80	1.00	1.00	1.00				
Date Sampled	06-Feb-25	06-Feb-25	06-Feb-25	07-Feb-25	07-Feb-25	10-Feb-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6A	6AE	6A	6A	6AB	6AE				
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 25/01492

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/01492/1	25/01492/2	25/01492/3	25/01492/4	25/01492/5	25/01492/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG01	TPLG06	TPLG08	TPLR06	TPLR04	TPLR02				
Depth to Top	0.50	0.40	0.40	0.50	0.50	0.50				
Depth To Bottom	1.00	0.80	0.80	1.00	1.00	1.00				
Date Sampled	06-Feb-25	06-Feb-25	06-Feb-25	07-Feb-25	07-Feb-25	10-Feb-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6A	6AE	6A	6A	6AB	6AE				
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07		mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06		mg/kg	0.06	A-T-019s
Coronene$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07		mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/01492

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/01492/1	25/01492/2	25/01492/3	25/01492/4	25/01492/5	25/01492/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG01	TPLG06	TPLG08	TPLR06	TPLR04	TPLR02				
Depth to Top	0.50	0.40	0.40	0.50	0.50	0.50				
Depth To Bottom	1.00	0.80	0.80	1.00	1.00	1.00				
Date Sampled	06-Feb-25	06-Feb-25	06-Feb-25	07-Feb-25	07-Feb-25	10-Feb-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6A	6AE	6A	6A	6AB	6AE				
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
Total Speciated PCB-$EC7_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.003	A-T-004s

Envirolab Job Number: 25/01492

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/01492/1	25/01492/2	25/01492/3	25/01492/4	25/01492/5	25/01492/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG01	TPLG06	TPLG08	TPLR06	TPLR04	TPLR02				
Depth to Top	0.50	0.40	0.40	0.50	0.50	0.50				
Depth To Bottom	1.00	0.80	0.80	1.00	1.00	1.00				
Date Sampled	06-Feb-25	06-Feb-25	06-Feb-25	07-Feb-25	07-Feb-25	10-Feb-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6A	6AE	6A	6A	6AB	6AE				
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*	*	*	*	*	*				A-T-001
Mass Sample (1 stage WAC)	0.244	0.237	0.240	0.228	0.216	0.234		Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	71.7	73.9	72.9	76.7	81.1	74.7		% w/w	0.1	Calc-no stones
pH (10:1 leachable)$_A$	7.79	6.08	6.25	7.85	7.91	7.31		pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	193	11	12	134	106	42		µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	96	<20	<20	67	53	21		mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	1.62	3.77	1.83	1.62	<1.00	1.82		mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	<0.10	<0.10	<0.10	0.64	0.65	0.32		mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	<1.00	16.43	6.34	<1.00	<1.00	2.51		mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	<0.01	0.01	<0.01	<0.01	<0.01	<0.01		mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.004	0.006	0.007	0.005	0.004	0.009		mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	0.007	<0.004	0.005	<0.004	<0.004	<0.004		mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	<0.001	0.004	0.002	<0.001	<0.001	0.003		mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	0.003	<0.001	<0.001	0.001	0.002	<0.001		mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	0.002	<0.002	<0.002	<0.002	<0.002	<0.002		mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.034	0.030	0.032	0.015	0.014	0.018		mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.04	0.06	0.07	0.05	0.04	0.09		mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	16	38	18	16	<10	18		mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	0.07	<0.04	0.05	<0.04	<0.04	<0.04		mg/kg	0.04	Calc-no stones

Envirolab Job Number: 25/01492

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/01492/1	25/01492/2	25/01492/3	25/01492/4	25/01492/5	25/01492/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG01	TPLG06	TPLG08	TPLR06	TPLR04	TPLR02				
Depth to Top	0.50	0.40	0.40	0.50	0.50	0.50				
Depth To Bottom	1.00	0.80	0.80	1.00	1.00	1.00				
Date Sampled	06-Feb-25	06-Feb-25	06-Feb-25	07-Feb-25	07-Feb-25	10-Feb-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6A	6AE	6A	6A	6AB	6AE				
DOC (10:1 cumulative mg/kg)	<200	<200	<200	<200	<200	<200		mg/kg	200	Calc-no stones
Fluoride (10:1 cumulative mg/kg)	<1	<1	<1	6	7	3		mg/kg	1	Calc-no stones
Lead (10:1 cumulative mg/kg)	<0.01	0.04	0.02	<0.01	<0.01	0.03		mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	0.03	<0.01	<0.01	0.01	0.02	<0.01		mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	0.02	<0.02	<0.02	<0.02	<0.02	<0.02		mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	<0.1	0.1	<0.1	<0.1	<0.1	<0.1		mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	<10	164	63	<10	<10	25		mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	960	<200	<200	670	530	210		mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.34	0.30	0.32	0.15	0.14	0.18		mg/kg	0.02	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	<1	<1	<1	2	<1	<1		mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	<1	<1	<1	2	4	<1		mg/kg	1	A-T-055s
Total Aliphatics$_A$	<1	<1	<1	5	4	<1		mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C12-C16$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	<1	<1	<1	1	<1	<1		mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C35-C40$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Total Aromatics$_A$	<1	<1	<1	1	<1	<1		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	<1	<1	<1	6	4	<1		mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s

Envirolab Job Number: 25/01492

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/01492/1	25/01492/2	25/01492/3	25/01492/4	25/01492/5	25/01492/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG01	TPLG06	TPLG08	TPLR06	TPLR04	TPLR02				
Depth to Top	0.50	0.40	0.40	0.50	0.50	0.50				
Depth To Bottom	1.00	0.80	0.80	1.00	1.00	1.00				
Date Sampled	06-Feb-25	06-Feb-25	06-Feb-25	07-Feb-25	07-Feb-25	10-Feb-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6A	6AE	6A	6A	6AB	6AE				
BTEX - Ethyl Benzene$_{A}^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_{A}^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - o Xylene$_{A}^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
MTBE$_{A}^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C35-C40$_{A}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.
Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). "TRACE" will be reported as a quantification result.
PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/01492

Date Received: 17/02/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 11.0

Clients Project No: N/A

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/01492/1	25/01492/2	25/01492/3	25/01492/4	25/01492/5	25/01492/6
Client Sample No						
Client Sample ID/Depth	TPLG01 0.50-1.00m	TPLG06 0.40-0.80m	TPLG08 0.40-0.80m	TPLR06 0.50-1.00m	TPLR04 0.50-1.00m	TPLR02 0.50-1.00m
Date Sampled	06/02/25	06/02/25	06/02/25	07/02/25	07/02/25	10/02/25
A-T-004s	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
A-T-007s	21/02/2025	20/02/2025	20/02/2025	21/02/2025	21/02/2025	20/02/2025
A-T-019s	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
A-T-022s	19/02/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025
A-T-024s	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
A-T-025w	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
A-T-026w	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
A-T-026w (F)	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
A-T-027s	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
A-T-028s	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
A-T-029s	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025	20/02/2025
A-T-031s	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
A-T-031w	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
A-T-032s	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
A-T-032w	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
A-T-033w	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
A-T-037w	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
A-T-040s	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
A-T-042sTCN	19/02/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025
A-T-043-s	19/02/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025	19/02/2025
A-T-044	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
A-T-045	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025	18/02/2025
A-T-050s	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
A-T-050w	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
A-T-055s	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Calc	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Calc-As Recd	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025	21/02/2025
Calc-no stones	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025
Probe (w)	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025	24/02/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Irish Water		
11 November 2025		
From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
TP-LG9	0.50	0.90	ES		14/02/25										1	EnvLab 25/02144/1
TP-M01	0.50	1.00	ES		13/02/25										1	EnvLab 25/02144/2
TP-WH01	0.50	0.90	ES		21/02/25										1	EnvLab 25/02144/3
TP-T04	0.50	1.00	ES	1	26/02/25										1	EnvLab 25/02144/4
TP-T03	0.50	1.00	ES	1	26/02/25										1	EnvLab 25/02144/5
TP-T01	0.50	1.00	ES	1	26/02/25										1	EnvLab 25/02144/6

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Certificate of Analysis

Report No.:	**25-02093-1**
Issue No.:	**1**
Date of Issue	**29/04/2025**
Customer Details:	Envirolab Ltd, 7 - 8 Sandpits Business Park, Mottram Road, Hyde, Greater Manchester, SK14 3AR, United Kingdom
Customer Contact:	Richard Wong
Customer Order No.:	P0756275
Customer Reference:	Not Supplied
Quotation Reference:	Q25-03486 (Issue: 3)
Description:	6 geo samples
Date Received:	06/03/2025
Date Started:	10/03/2025
Date Completed:	29/04/2025
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **David Long, LIMS Manager**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

RPS Environmental Management Limited trading as RPS Mountainheath. Registered in England No. 01756175.
13 St Martins Way, Bedford, Bedfordshire, MK42 0LF. T +44 1462 480 400
A member of the RPS Group plc. Terms and conditions apply - copy on request

Results Summary

Report No.: 25-02093-1

Customer Reference: Not Supplied

Customer Order No: P0756275

	Customer Sample No	25/02144/1	25/02144/2	25/02144/3	25/02144/4	25/02144/5	25/02144/6
	Customer Sample ID	TPLG09	TPM01	TPWH01	TPT-04	TPT-03	TPT-01
	RPS Sample No	86960	86961	86962	86963	86964	86965
	Sample Type	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**
	Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampling Date	14/02/2025	13/02/2025	21/02/2025			
Determinand	**CAS No**	**Codes**	**SOP**	**RL**	**Units**						
methyl acrylate	96-33-3	N	G132	0.1	mg/kg AR	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (D)	< 0.1 (D)	< 0.1 (D)

Deviating Samples

Report No.: 25-02093-1

Customer Reference: Not Supplied

Customer Order No: P0756275

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
86960	25/02144/1	TPLG09	14/02/2025	100 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
86961	25/02144/2	TPM01	13/02/2025	100 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
86962	25/02144/3	TPWH01	21/02/2025	100 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
86963	25/02144/4	TPT-04	Not Provided	100 mL amber glass jar	**Yes**	No sampling date provided.
86964	25/02144/5	TPT-03	Not Provided	100 mL amber glass jar	**Yes**	No sampling date provided.
86965	25/02144/6	TPT-01	Not Provided	100 mL amber glass jar	**Yes**	No sampling date provided.

Report No.: 25-02093-1

Type	Matrix Code	Description
Food	CEREALPROD	Cereals, grains & products
Food	DRIEDFRUIT	Dried fruits
Food	FRIEDBAKED	Fried or baked food
Food	LEGUME	Legumes
Food	MEAT	Meat
Food	POWDERED	Powdered food
Food	PULSE	Pulses (dried legumes)
Food	VEGETABLES	Vegetables
Gas	TDTUBE	TD Tube
Gas	TENAX	Tenax Tube
Gas	TUBE	Tube
Gas	VAPOUR	Gas
Geological	SED_MAR	Marine Sediment
Geological	SED_RIV	River Sediment
Geological	SLUDG_SOL	Sludge (solid only)
Geological	SOIL	Soil
Liquid	BEVERAGE	Beverage
Liquid	BLOOD	Blood
Liquid	CONDENSATE	Condensate
Liquid	FOAM_LIQ	Liquid foam
Liquid	FORMULATN	Formula
Liquid	LEACHATE	Leachate
Liquid	OIL/GREASE	Oil or grease
Liquid	SLUDG_LIQ	Sludge (liquid only)
Liquid	SOLVENT	Solvent
Liquid	URINE	Urine
Sludge	SLUDG_WHL	Sludge for bulk route
Solid	BADGE	Badge
Solid	BEDDING	Bedding
Solid	BIOTA	Biota (general)
Solid	BIOTA_F	Biota (fish)
Solid	BIOTA_SF	Biota (shellfish)
Solid	CONSTRCTN	Construction materials
Solid	FABRIC	Fabrics & furnishing materials
Solid	FEED	Animal feed
Solid	FERTILISER	Fertiliser
Solid	FILTER	Filter
Solid	FOAM	Solid foam material
Solid	LATEX	Latex/Rubber
Solid	PACKAGING	Packaging material
Solid	PAPER	Paper
Solid	PLANT	Plant (vegetation)
Solid	POWDER	Powder
Solid	SWAB	Swab
Water	BAL	Ballast Water
Water	BIL	Bilge Water
Water	DW	Drinking Water
Water	EFFLUENT	Effluent
Water	GW	Ground Water
Water	INFLUENT	Influent
Water	MINEW	Mine Water
Water	MW	Mineral Water
Water	SALTW	Salt Water
Water	SW	Surface Water
Water	TW	Tap Water
Water	W	Unknown Water

Report No.: 25-02093-1

Key Code	Description
N	Not Accredited Test
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
UF	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
O	Marine Management Organisation (MMO) Validated
SN	Subcontracted to approved laboratory not accredited for the test
SU	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SIN	Subcontracted to internal RPS Group laboratory not accredited for the test
SIU	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
SIM	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
*	Modified standard method
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis
L (in results)	Result is outside normal limits

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 month (if frozen) from the issue date of this report
Waters	2 weeks from the issue date of this report
Other Liquids	1 month from the issue date of this report
Solids / Soils	1 month from the issue date of this report
Sediments	1 month from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

Soil Typing	Description
Type 1	Clay - Brown
Type 2	Clay - Grey/Black
Type 3	Sand
Type 4	Top Soil (Standard)
Type 5	Top Soil (High Peat)
Type 6	Made Ground (>50% Clay)
Type 7	Made Ground (>50% Sand)
Type 8	Made Ground (>50% Top Soil)
Type X	Other

Dev code	Description
D	No sampling date provided.
T	No sampling time provided.
Z	Temperature of samples exceeded in transit/storage.
V	Excessive headspace for volatile determinands.
P	Sample submitted without required preservative(s).
C	Incorrect container.
H	Holding time exceeded (sampling to extraction).
X	Holding time exceeded (sampling to receipt).

Note: Where the following information is included in this certificate, it has usually been supplied by the customer: Customer Sample ID, Sample Location, Sample Depth, Sampling Date and Sampling Time. The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

Final Test Report

Envirolab Job Number:	25/02144
Issue Number:	1
Date:	12-Mar-25

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager:	Damien O'Reilly/IDL Lab
Project Name:	Lough Talt - 2024SO105
Project Ref:	N/A
Order No:	PKB21191
Date Samples Received:	4-Mar-25
Date Instructions Received:	4-Mar-25
Date Analysis Completed:	12-Mar-25

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

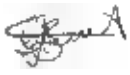
IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

envirolab

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02144/1				
Client Sample Number						Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPLG09				
Depth to Top				0.5				
Depth to Bottom				0.90				
Date Sampled				14/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.77**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.36**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.011	**0.110**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.001	**0.010**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.042	**0.420**	4	50	200
Chloride	A-T-026	N	N	3	**31**	800	15000	25000
Fluoride	A-T-026	N	N	<0.10	**<1**	10	150	500
Sulphate as SO_4	A-T-026	N	N	10	**103**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.02	**0.20**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.2				
Conductivity (µS/cm)	A-T-037	N	N	30				
Mass Sample (kg)				0.249				
Dry Matter (%)	A-T-044	N	N	70.3				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02144/2				
Client Sample Number								
Client Sample ID				TPM01				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				13/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.29**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.64**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1**	**10:1**	**Limit values for compliance leaching test using**		
				mg/l	**mg/kg**	**BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.013	**0.130**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.002	**0.020**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.058	**0.580**	4	50	200
Chloride	A-T-026	N	N	2	**21**	800	15000	25000
Fluoride	A-T-026	N	N	0.7	**7.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	3	**25**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.02	**0.20**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.4				
Conductivity (µS/cm)	A-T-037	N	N	36				
Mass Sample (kg)				0.218				
Dry Matter (%)	A-T-044	N	N	80.2				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02144/3				
Client Sample Number								
Client Sample ID				TPWH01				
Depth to Top				0.5				
Depth to Bottom				0.90				
Date Sampled				21/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
						Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.28**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.26**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	0.001	**0.010**	0.5	2	25
Barium	A-T-025	N	N	0.040	**0.400**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.004	**0.040**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	0.001	**0.010**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.012	**0.120**	4	50	200
Chloride	A-T-026	N	N	3	**27**	800	15000	25000
Fluoride	A-T-026	N	N	1.0	**10.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	3	**30**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	70	**700**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.0				
Conductivity (µS/cm)	A-T-037	N	N	140				
Mass Sample (kg)				0.214				
Dry Matter (%)	A-T-044	N	N	81.9				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02144/4				
Client Sample Number								
Client Sample ID				TPT-04				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled								
Sample Type				Soil - ES				
Sample Matrix Code				5A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.35**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.4**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.006	**0.060**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.015	**0.150**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	<0.10	**<1**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	6.6				
Conductivity (µS/cm)	A-T-037	N	N	14				
Mass Sample (kg)				0.205				
Dry Matter (%)	A-T-044	N	N	85.2				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02144/5				
Client Sample Number								
Client Sample ID				TPT-03				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled								
Sample Type				Soil - ES				
Sample Matrix Code				5AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.94**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.38**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.016	**0.160**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.001	**0.010**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.003	**0.030**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.023	**0.230**	4	50	200
Chloride	A-T-026	N	N	2	**16**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	2	**22**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	57	**570**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.8				
Conductivity (µS/cm)	A-T-037	N	N	114				
Mass Sample (kg)				0.21				
Dry Matter (%)	A-T-044	N	N	83.4				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02144/6				
Client Sample Number								
Client Sample ID				TPT-01				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled								
Sample Type				Soil - ES				
Sample Matrix Code				5AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.58**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.04**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1**	**10:1**	**Limit values for compliance leaching test using**		
				mg/l	**mg/kg**	**BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.019	**0.190**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.003	**0.030**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.014	**0.140**	4	50	200
Chloride	A-T-026	N	N	2	**15**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	3	**27**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	35	**350**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.2				
Conductivity (µS/cm)	A-T-037	N	N	70				
Mass Sample (kg)				0.195				
Dry Matter (%)	A-T-044	N	N	89.7				

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Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/02144
Issue Number: 1 **Date:** 30 April, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: N/A
Order No: PKB21191
Date Samples Received: 04/03/25
Date Instructions Received: 04/03/25
Date Analysis Completed: 29/04/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/02144

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02144/1	25/02144/2	25/02144/3	25/02144/4	25/02144/5	25/02144/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG09	TPM01	TPWH01	TPT-04	TPT-03	TPT-01				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	0.90	1.00	0.90	1.00	1.00	1.00				
Date Sampled	14-Feb-25	13-Feb-25	21-Feb-25							
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	6AE	6AE	5A	5AE	5AE				
% Moisture at <40C$_A$	28.1	23.1	17.8	13.4	19.4	6.3		% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		% w/w	0.1	A-T-044
pH$_D$[M#]	6.77	7.29	8.28	7.35	7.94	8.58		pH	0.01	A-T-031s
Sulphate (acid soluble)$_D$[M#]	<1000	<200	320	<200	260	280		mg/kg	200	A-T-028s
Cyanide (total)$_A$[M#]	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Sulphide$_A$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$[M#]	<5	<5	9	<5	8	7		mg/kg	5	A-T-029s
Total Organic Carbon$_D$[M#]	1.36	0.64	1.26	0.40	1.38	1.04		% w/w	0.08	A-T-032s
Antimony$_D$	<25	<5	<5	<5	<5	<5		mg/kg	5	A-T-024s
Arsenic$_D$[M#]	15	7	2	<1	<1	1		mg/kg	1	A-T-024s
Barium$_D$[#]	23	14	74	35	31	26		mg/kg	3	A-T-024s
Boron (water soluble)$_D$[M#]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		mg/kg	1	A-T-027s
Cadmium$_D$[M#]	<2.5	0.5	<0.5	0.6	<0.5	<0.5		mg/kg	0.5	A-T-024s
Copper$_D$[M#]	17	14	14	22	20	16		mg/kg	1	A-T-024s
Chromium$_D$[M#]	20	11	18	18	14	19		mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Chromium (trivalent)	20	11	18	18	14	19		mg/kg	1	Calc
Lead$_D$[M#]	14	12	9	10	11	6		mg/kg	1	A-T-024s
Mercury$_D$	<0.85	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Molybdenum$_D$[M#]	<5	1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Nickel$_D$[M#]	60	46	22	29	21	20		mg/kg	1	A-T-024s
Selenium$_D$[M#]	<5	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Zinc$_D$[M#]	231	53	34	63	49	46		mg/kg	1	A-T-024s
Mineral Oil (>C10-C40)$_A$	<10	<10	<10	<10	<10	<10		mg/kg	10	A-T-007s
Methyl Acrylate$_A$	Appended	Appended	Appended	Appended	Appended	Appended		mg/kg	0.1	Subcon RPS MH

Envirolab Job Number: 25/02144

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02144/1	25/02144/2	25/02144/3	25/02144/4	25/02144/5	25/02144/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG09	TPM01	TPWH01	TPT-04	TPT-03	TPT-01				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	0.90	1.00	0.90	1.00	1.00	1.00				
Date Sampled	14-Feb-25	13-Feb-25	21-Feb-25							
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	6AE	6AE	5A	5AE	5AE				
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 25/02144

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02144/1	25/02144/2	25/02144/3	25/02144/4	25/02144/5	25/02144/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG09	TPM01	TPWH01	TPT-04	TPT-03	TPT-01				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	0.90	1.00	0.90	1.00	1.00	1.00				
Date Sampled	14-Feb-25	13-Feb-25	21-Feb-25							
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	6AE	6AE	5A	5AE	5AE				
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07		mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06		mg/kg	0.06	A-T-019s
Coronene$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07		mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08		mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/02144

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02144/1	25/02144/2	25/02144/3	25/02144/4	25/02144/5	25/02144/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG09	TPM01	TPWH01	TPT-04	TPT-03	TPT-01				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	0.90	1.00	0.90	1.00	1.00	1.00				
Date Sampled	14-Feb-25	13-Feb-25	21-Feb-25							
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	6AE	6AE	5A	5AE	5AE				
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7$_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.003	A-T-004s

Envirolab Job Number: 25/02144

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02144/1	25/02144/2	25/02144/3	25/02144/4	25/02144/5	25/02144/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG09	TPM01	TPWH01	TPT-04	TPT-03	TPT-01				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	0.90	1.00	0.90	1.00	1.00	1.00				
Date Sampled	14-Feb-25	13-Feb-25	21-Feb-25							
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	6AE	6AE	5A	5AE	5AE				
Envirolab WAC A (Leachate only) 10:1										
Mass Sample (1 stage WAC)	0.249	0.218	0.214	0.205	0.210	0.195		Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	70.3	80.2	81.9	85.2	83.4	89.7		% w/w	0.1	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	<1	<1	<1	<1	2	<1		mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	3	1	5	1	4	3		mg/kg	1	A-T-055s
Total Aliphatics$_A$	3	1	5	1	6	3		mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C12-C16$_A$	<1	<1	<1	<1	<1	1		mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	<1	<1	<1	2	<1	1		mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	<1	<1	2	2	<1	1		mg/kg	1	A-T-055s
Aro >C35-C40$_A$	<1	<1	4	<1	<1	<1		mg/kg	1	A-T-055s
Total Aromatics$_A$	<1	<1	6	5	<1	3		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	3	1	11	6	6	6		mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C35-C40$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s

Envirolab Job Number: 25/02144

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02144/1	25/02144/2	25/02144/3	25/02144/4	25/02144/5	25/02144/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG09	TPM01	TPWH01	TPT-04	TPT-03	TPT-01				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	0.90	1.00	0.90	1.00	1.00	1.00				
Date Sampled	14-Feb-25	13-Feb-25	21-Feb-25							
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	6AE	6AE	5A	5AE	5AE				
Ammoniacal nitrogen as N (leachable)$_{A}$	0.06	0.05	0.31	<0.05	0.05	<0.05		mg/l	0.05	A-T-033w

Envirolab Job Number: 25/02144

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02144/1	25/02144/2	25/02144/3	25/02144/4	25/02144/5	25/02144/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG09	TPM01	TPWH01	TPT-04	TPT-03	TPT-01				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	0.90	1.00	0.90	1.00	1.00	1.00				
Date Sampled	14-Feb-25	13-Feb-25	21-Feb-25							
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	6AE	6AE	5A	5AE	5AE				
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*	*	*	*	*	*				A-T-001
pH (10:1 leachable)$_A$	7.21	7.42	7.97	6.63	7.75	8.24		pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	30	36	140	14	114	70		µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	<20	<20	70	<20	57	35		mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	3.09	2.14	2.72	<1.00	1.57	1.50		mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	<0.10	0.72	0.96	<0.10	0.44	0.35		mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	10.27	2.54	3.02	<1.00	2.20	2.73		mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	0.02	0.02	0.01	0.01	<0.01	<0.01		mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001	<0.001	0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	<0.001	<0.001	0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.011	0.013	0.040	0.006	0.016	0.019		mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	0.001	0.002	<0.001	<0.001	0.003	0.003		mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	<0.001	<0.001	0.004	<0.001	0.001	<0.001		mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.042	0.058	0.012	0.015	0.023	0.014		mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01	<0.01	0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	<0.01	<0.01	0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.11	0.13	0.40	0.06	0.16	0.19		mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	31	21	27	<10	16	15		mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	Calc-no stones
DOC (10:1 cumulative mg/kg)	<200	<200	<200	<200	<200	<200		mg/kg	200	Calc-no stones
Fluoride (10:1 cumulative mg/kg)	<1	7	10	<1	4	4		mg/kg	1	Calc-no stones

Envirolab Job Number: 25/02144

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02144/1	25/02144/2	25/02144/3	25/02144/4	25/02144/5	25/02144/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TPLG09	TPM01	TPWH01	TPT-04	TPT-03	TPT-01				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	0.90	1.00	0.90	1.00	1.00	1.00				
Date Sampled	14-Feb-25	13-Feb-25	21-Feb-25							
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	6AE	6AE	5A	5AE	5AE				
Lead (10:1 cumulative mg/kg)	0.01	0.02	<0.01	<0.01	0.03	0.03		mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	<0.01	<0.01	0.04	<0.01	0.01	<0.01		mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	0.2	0.2	0.1	0.1	<0.1	<0.1		mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	103	25	30	<10	22	27		mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	<200	<200	700	<200	570	350		mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.42	0.58	0.12	0.15	0.23	0.14		mg/kg	0.02	Calc-no stones

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.
Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). "TRACE" will be reported as a quantification result.
PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/02144

Date Received: 04/03/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 11.1

Clients Project No: N/A

Lab Sample ID	25/02144/1	25/02144/2	25/02144/4	25/02144/5	25/02144/6
Client Sample No					
Client Sample ID/Depth	TPLG09 0.50-0.90m	TPM01 0.50-1.00m	TPT-04 0.50-1.00m	TPT-03 0.50-1.00m	TPT-01 0.50-1.00m
Date Sampled	14/02/25	13/02/25			
Deviation Code					
E (no date)			✓	✓	✓
F	✓	✓			

Key

E (no date) *No sampling date provided (all results affected if not provided)*

F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/02144/1	25/02144/2
Client Sample No		
Client Sample ID/Depth	TPLG09 0.50-0.90m	TPM01 0.50-1.00m
Date Sampled	14/02/25	13/02/25
PAH-16MS plus Coronene	✓	✓
VPHCWG	✓	✓
Cyanide (total)	✓	✓
Methyl Acrylate	✓	✓

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples 5 ± 3°C), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/02144/1	25/02144/2	25/02144/3	25/02144/4	25/02144/5	25/02144/6
Client Sample No						
Client Sample ID/Depth	TPLG09 0.50-0.90m	TPM01 0.50-1.00m	TPWH01 0.50-0.90m	TPT-04 0.50-1.00m	TPT-03 0.50-1.00m	TPT-01 0.50-1.00m
Date Sampled	14/02/25	13/02/25	21/02/25			
A-T-004s	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025
A-T-007s	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025
A-T-019s	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025
A-T-022s	06/03/2025	06/03/2025	06/03/2025	06/03/2025	06/03/2025	06/03/2025
A-T-024s	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025
A-T-025w	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025
A-T-026w	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025
A-T-026w (F)	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025
A-T-027s	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025
A-T-028s	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025
A-T-029s	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025
A-T-031s	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025
A-T-031w	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025
A-T-032s	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025
A-T-032w	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025
A-T-033w	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025
A-T-037w	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025
A-T-040s	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025
A-T-042sTCN	06/03/2025	06/03/2025	06/03/2025	06/03/2025	06/03/2025	06/03/2025
A-T-043-s	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025
A-T-044	06/03/2025	06/03/2025	06/03/2025	06/03/2025	06/03/2025	06/03/2025
A-T-045	06/03/2025	06/03/2025	06/03/2025	06/03/2025	06/03/2025	06/03/2025
A-T-050s	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025	07/03/2025
A-T-050w	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025
A-T-055s	10/03/2025	10/03/2025	10/03/2025	10/03/2025	07/03/2025	07/03/2025
Calc	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025	10/03/2025
Calc-As Recd	10/03/2025	10/03/2025	10/03/2025	10/03/2025	07/03/2025	07/03/2025
Calc-no stones	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025
Probe (w)	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025	12/03/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Irish Water		
11 November 2025		
From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
TP-R02	0.60	1.00	ES	ES	24/02/25										1	EnvLab 25/02511/1
TP-R03	0.50	1.00	ES	ES	24/02/25										1	EnvLab 25/02511/2
TP-R04	0.50	1.00	ES	ES	24/02/25										1	EnvLab 25/02511/3
TP-T02	0.50	1.00	ES	ES	27/02/25										1	EnvLab 25/02511/4
TP-M75	0.50	1.00	ES	ES	03/03/25										1	EnvLab 25/02511/5
TP-M78	0.50	1.00	ES	ES	03/03/25										1	EnvLab 25/02511/6

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Certificate of Analysis

Report No.:	**25-02387-1**
Issue No.:	**1**
Date of Issue	**29/04/2025**
Customer Details:	Envirolab Ltd, 7 - 8 Sandpits Business Park, Mottram Road, Hyde, Greater Manchester, SK14 3AR, United Kingdom
Customer Contact:	Maleyka Owen-Agjef
Customer Order No.:	PO756356
Customer Reference:	Not Supplied
Quotation Reference:	Q25-03486 (Issue: 3)
Description:	6 geo samples
Date Received:	14/03/2025
Date Started:	17/03/2025
Date Completed:	29/04/2025
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **David Long, LIMS Manager**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

RPS Environmental Management Limited trading as RPS Mountainheath. Registered in England No. 01756175.
13 St Martins Way, Bedford, Bedfordshire, MK42 0LF. T +44 1462 480 400
A member of the RPS Group plc. Terms and conditions apply - copy on request

Results Summary

Report No.: 25-02387-1

Customer Reference: Not Supplied

Customer Order No: PO756356

Customer Sample No	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6
RPS Sample No	87912	87913	87914	87915	87916	87917
Sample Type	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**
Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	24/02/2025	24/02/2025	24/02/2025	27/02/2025	03/03/2025	03/03/2025

Determinand	CAS No	Codes	SOP	RL	Units						
methyl acrylate	96-33-3	N	G132	0.1	mg/kg AR	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)

Deviating Samples

Report No.: 25-02387-1

Customer Reference: Not Supplied

Customer Order No: PO756356

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
87912	25/02511/1		24/02/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
87913	25/02511/2		24/02/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
87914	25/02511/3		24/02/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
87915	25/02511/4		27/02/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
87916	25/02511/5		03/03/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
87917	25/02511/6		03/03/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).

Report No.: 25-02387-1

Type	Matrix Code	Description
Food	CEREALPROD	Cereals, grains & products
Food	DRIEDFRUIT	Dried fruits
Food	FRIEDBAKED	Fried or baked food
Food	LEGUME	Legumes
Food	MEAT	Meat
Food	POWDERED	Powdered food
Food	PULSE	Pulses (dried legumes)
Food	VEGETABLES	Vegetables
Gas	TDTUBE	TD Tube
Gas	TENAX	Tenax Tube
Gas	TUBE	Tube
Gas	VAPOUR	Gas
Geological	SED_MAR	Marine Sediment
Geological	SED_RIV	River Sediment
Geological	SLUDG_SOL	Sludge (solid only)
Geological	SOIL	Soil
Liquid	BEVERAGE	Beverage
Liquid	BLOOD	Blood
Liquid	CONDENSATE	Condensate
Liquid	FOAM_LIQ	Liquid foam
Liquid	FORMULATN	Formula
Liquid	LEACHATE	Leachate
Liquid	OIL/GREASE	Oil or grease
Liquid	SLUDG_LIQ	Sludge (liquid only)
Liquid	SOLVENT	Solvent
Liquid	URINE	Urine
Sludge	SLUDG_WHL	Sludge for bulk route
Solid	BADGE	Badge
Solid	BEDDING	Bedding
Solid	BIOTA	Biota (general)
Solid	BIOTA_F	Biota (fish)
Solid	BIOTA_SF	Biota (shellfish)
Solid	CONSTRCTN	Construction materials
Solid	FABRIC	Fabrics & furnishing materials
Solid	FEED	Animal feed
Solid	FERTILISER	Fertiliser
Solid	FILTER	Filter
Solid	FOAM	Solid foam material
Solid	LATEX	Latex/Rubber
Solid	PACKAGING	Packaging material
Solid	PAPER	Paper
Solid	PLANT	Plant (vegetation)
Solid	POWDER	Powder
Solid	SWAB	Swab
Water	BAL	Ballast Water
Water	BIL	Bilge Water
Water	DW	Drinking Water
Water	EFFLUENT	Effluent
Water	GW	Ground Water
Water	INFLUENT	Influent
Water	MINEW	Mine Water
Water	MW	Mineral Water
Water	SALTW	Salt Water
Water	SW	Surface Water
Water	TW	Tap Water
Water	W	Unknown Water

Report No.: 25-02387-1

Key Code	Description
N	Not Accredited Test
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
UF	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
O	Marine Management Organisation (MMO) Validated
SN	Subcontracted to approved laboratory not accredited for the test
SU	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SIN	Subcontracted to internal RPS Group laboratory not accredited for the test
SIU	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
SIM	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
*	Modified standard method
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis
L (in results)	Result is outside normal limits

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 month (if frozen) from the issue date of this report
Waters	2 weeks from the issue date of this report
Other Liquids	1 month from the issue date of this report
Solids / Soils	1 month from the issue date of this report
Sediments	1 month from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

Soil Typing	Description
Type 1	Clay - Brown
Type 2	Clay - Grey/Black
Type 3	Sand
Type 4	Top Soil (Standard)
Type 5	Top Soil (High Peat)
Type 6	Made Ground (>50% Clay)
Type 7	Made Ground (>50% Sand)
Type 8	Made Ground (>50% Top Soil)
Type X	Other

Dev code	Description
D	No sampling date provided.
T	No sampling time provided.
Z	Temperature of samples exceeded in transit/storage.
V	Excessive headspace for volatile determinands.
P	Sample submitted without required preservative(s).
C	Incorrect container.
H	Holding time exceeded (sampling to extraction).
X	Holding time exceeded (sampling to receipt).

Note: Where the following information is included in this certificate, it has usually been supplied by the customer: Customer Sample ID, Sample Location, Sample Depth, Sampling Date and Sampling Time. The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

Final Test Report

Envirolab Job Number:	25/02511
Issue Number:	1
Date:	30-Apr-25

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager:	Damien O'Reilly/IDL Lab
Project Name:	Lough Talt - 2024SO105
Project Ref:	N/A
Order No:	PKB21191
Date Samples Received:	12-Mar-25
Date Instructions Received:	12-Mar-25
Date Analysis Completed:	29-Apr-25

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Richard Wong
Client Manager

envirolab

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02511/1				
Client Sample Number						Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TP-R2				
Depth to Top				0.6				
Depth to Bottom				1.00				
Date Sampled				24/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.10**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.15**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1**	**10:1**	**Limit values for compliance leaching test using**		
				mg/l	**mg/kg**	**BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.017	**0.170**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	0.002	**0.020**	0.5	10	70
Copper	A-T-025	N	N	0.005	**0.050**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.004	**0.040**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.010	**0.100**	4	50	200
Chloride	A-T-026	N	N	1	**10**	800	15000	25000
Fluoride	A-T-026	N	N	<0.10	**<1**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	5.7				
Conductivity (µS/cm)	A-T-037	N	N	<10				
Mass Sample (kg)				0.193				
Dry Matter (%)	A-T-044	N	N	90.7				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

envirolab

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02511/2				
Client Sample Number								
Client Sample ID				TP-R3				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				24/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				5AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.06**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.01**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	<0.001	**<0.01**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.029	**0.290**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	<0.10	**<1**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	5.8				
Conductivity (µS/cm)	A-T-037	N	N	<10				
Mass Sample (kg)				0.228				
Dry Matter (%)	A-T-044	N	N	76.8				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02511/3				
Client Sample Number								
Client Sample ID				TP-R4				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				24/02/2025				
Sample Type				Soil - ES				
Sample Matrix Code				5A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.77**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.32**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.001	**0.010**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.013	**0.130**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	<0.10	**<1**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	5.7				
Conductivity (µS/cm)	A-T-037	N	N	<10				
Mass Sample (kg)				0.207				
Dry Matter (%)	A-T-044	N	N	84.7				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02511/4				
Client Sample Number								
Client Sample ID				TP-T2				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				27/02/2025				
Sample Type				Solid				
Sample Matrix Code				7				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.18**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.86**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.009	**0.090**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.001	**0.010**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.012	**0.120**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	0.8	**8.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	30	**300**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.5				
Conductivity (µS/cm)	A-T-037	N	N	61				
Mass Sample (kg)				0.181				
Dry Matter (%)	A-T-044	N	N	96.6				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02511/5				
Client Sample Number								
Client Sample ID				TP-M75				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				03/03/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**4.88**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**35.6**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<20**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.004	**0.040**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.034	**0.340**	4	50	200
Chloride	A-T-026	N	N	2	**17**	800	15000	25000
Fluoride	A-T-026	N	N	0.2	**2.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	20.30	**203**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	6.4				
Conductivity (µS/cm)	A-T-037	N	N	31				
Mass Sample (kg)				0.3				
Dry Matter (%)	A-T-044	N	N	58.3				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/02511/6				
Client Sample Number								
Client Sample ID				TP-M78		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				03/03/2025				
Sample Type				Soil - ES				
Sample Matrix Code				5AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**4.92**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**53.3**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**60**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.002	**0.020**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.002	**0.020**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.075	**0.750**	4	50	200
Chloride	A-T-026	N	N	2	**24**	800	15000	25000
Fluoride	A-T-026	N	N	0.1	**1.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	25.70	**257**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	6.6				
Conductivity (µS/cm)	A-T-037	N	N	30				
Mass Sample (kg)				0.349				
Dry Matter (%)	A-T-044	N	N	50.2				

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Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/02511
Issue Number: 1 **Date:** 30 April, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: N/A
Order No: PKB21191
Date Samples Received: 12/03/25
Date Instructions Received: 12/03/25
Date Analysis Completed: 29/04/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/02511

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP-R2	TP-R3	TP-R4	TP-T2	TP-M75	TP-M78				
Depth to Top	0.60	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	24-Feb-25	24-Feb-25	24-Feb-25	27-Feb-25	03-Mar-25	03-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	5AE	5A	7	6AE	5AE				
% Moisture at <40C$_A$	10.6	20.0	16.4	6.1	66.0	83.2		% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		% w/w	0.1	A-T-044
pH$_D^{M\#}$	6.10	6.06	6.77	8.18^U	4.88	4.92		pH	0.01	A-T-031s
Sulphate (acid soluble)$_D^{M\#}$	<200	200	<200	360^U	940	980		mg/kg	200	A-T-028s
Cyanide (total)$_A^{M\#}$	<1	<1	<1	<1^U	<1	<1		mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Sulphide$_A$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-043-s
Sulphur (elemental)$_D^{M\#}$	<5	<5	<5	<5^U	<5	43		mg/kg	5	A-T-029s
Total Organic Carbon$_D^{M\#}$	0.15	1.01	0.32	2.86^U	35.6	53.3		% w/w	0.08	A-T-032s
Antimony$_D$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-024s
Arsenic$_D^{M\#}$	<1	<1	<1	2^U	<1	<1		mg/kg	1	A-T-024s
Barium$_D^{\#}$	14	11	18	34^U	25	9		mg/kg	3	A-T-024s
Boron (water soluble)$_D^{M\#}$	<1.0	<1.0	<1.0	<1.0^U	<1.0	1.2		mg/kg	1	A-T-027s
Cadmium$_D^{M\#}$	<0.5	<0.5	<0.5	<0.5^U	<0.5	<0.5		mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	8	7	10	8^U	5	5		mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	9	16	17	7^U	4	4		mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<4		mg/kg	1	A-T-040s
Chromium (trivalent)	9	16	17	7	4	4		mg/kg	1	Calc
Lead$_D^{M\#}$	5	7	6	9^U	5	2		mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Molybdenum$_D^{M\#}$	<1	<1	<1	<1^U	<1	<1		mg/kg	1	A-T-024s
Nickel$_D^{M\#}$	12	9	17	11^U	5	6		mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	<1	<1	<1	<1^U	<1	<1		mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	30	20	39	30^U	10	198		mg/kg	1	A-T-024s
Mineral Oil (>C10-C40)$_A$	<10	<10	<10	<10	<20	60		mg/kg	10	A-T-007s
Methyl Acrylate$_A$	Appended	Appended	Appended	Appended	Appended	Appended		mg/kg	0.1	Subcon RPS MH

Envirolab Job Number: 25/02511

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP-R2	TP-R3	TP-R4	TP-T2	TP-M75	TP-M78				
Depth to Top	0.60	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	24-Feb-25	24-Feb-25	24-Feb-25	27-Feb-25	03-Mar-25	03-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	5AE	5A	7	6AE	5AE				
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD	NAD^{U}	NAD	NAD				A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 25/02511

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP-R2	TP-R3	TP-R4	TP-T2	TP-M75	TP-M78				
Depth to Top	0.60	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	24-Feb-25	24-Feb-25	24-Feb-25	27-Feb-25	03-Mar-25	03-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	5AE	5A	7	6AE	5AE				
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01^U	<0.01	<0.01		mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01^U	<0.01	<0.01		mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02	<0.02	<0.02	<0.02^U	<0.02	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04^U	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04^U	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05^U	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05^U	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07^U	<0.07	<0.07		mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06	<0.06	<0.06	<0.06^U	<0.06	<0.06		mg/kg	0.06	A-T-019s
Coronene$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04^U	<0.04	<0.04		mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.08	<0.08	<0.08	<0.08^U	<0.08	<0.08		mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01^U	<0.01	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03	<0.03	<0.03	<0.03^U	<0.03	<0.03		mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	<0.03	<0.03^U	<0.03	<0.03		mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.03	<0.03	<0.03	<0.03^U	<0.03	<0.03		mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07^U	<0.07	<0.07		mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	<0.08	<0.08	<0.08	<0.08^U	<0.08	<0.08		mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/02511

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP-R2	TP-R3	TP-R4	TP-T2	TP-M75	TP-M78				
Depth to Top	0.60	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	24-Feb-25	24-Feb-25	24-Feb-25	27-Feb-25	03-Mar-25	03-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	5AE	5A	7	6AE	5AE				
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.003	<0.003	<0.003	<0.003^U	<0.003	<0.003		mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002	<0.002^U	<0.002	<0.002		mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004	<0.004^U	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007	<0.007^U	<0.007	<0.007		mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006	<0.006^U	<0.006	<0.006		mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004	<0.004^U	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004	<0.004^U	<0.004	<0.004		mg/kg	0.004	A-T-004s
Total Speciated PCB-$EC7_A^{M\#}$	<0.007	<0.007	<0.007	<0.007^U	<0.007	<0.007		mg/kg	0.003	A-T-004s

Envirolab Job Number: 25/02511 **Client Project Name: Lough Talt - 2024SO105**

Client Project Ref: N/A

Lab Sample ID	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP-R2	TP-R3	TP-R4	TP-T2	TP-M75	TP-M78				
Depth to Top	0.60	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	24-Feb-25	24-Feb-25	24-Feb-25	27-Feb-25	03-Mar-25	03-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	5AE	5A	7	6AE	5AE				
Envirolab WAC A (Leachate only) 10:1										
Mass Sample (1 stage WAC)	0.193	0.228	0.207	0.181	0.300	0.349		Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	90.7	76.8	84.7	96.6	58.3	50.2		% w/w	0.1	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05		mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05		mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1^U	<1	<1		mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<1	<1^U	6	<1		mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	<1	1	<1	<1^U	18	345		mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	<1	8	<1	1^U	135	5940		mg/kg	1	A-T-055s
Total Aliphatics$_A$	<1	11	<1	1	209	7200		mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.05^U	<0.05	<0.05		mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.05^U	<0.05	<0.05		mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	<1	<1	3	<1		mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	<1	<1	3	<1		mg/kg	1	A-T-055s
Aro >C12-C16$_A$	<1	1	<1	<1	18	411		mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	<1	1	<1	<1^U	15	369		mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	<1	4	<1	<1^U	26	1460		mg/kg	1	A-T-055s
Aro >C35-C40$_A$	<1	4	<1	<1	32	589		mg/kg	1	A-T-055s
Total Aromatics$_A$	<1	10	<1	<1	97	2830		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	<1	21	<1	1	306	10100		mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.05^U	<0.05	<0.05		mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.05^U	<0.05	<0.05		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.05^U	<0.05	<0.05		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.05^U	<0.05	<0.05		mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.05^U	<0.05	<0.05		mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.05^U	<0.05	<0.05		mg/kg	0.01	A-T-022s
Ali >C35-C40$_A$	<1	3	<1	<1	50	940		mg/kg	1	A-T-055s

Envirolab Job Number: 25/02511

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP-R2	TP-R3	TP-R4	TP-T2	TP-M75	TP-M78				
Depth to Top	0.60	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	24-Feb-25	24-Feb-25	24-Feb-25	27-Feb-25	03-Mar-25	03-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	5AE	5A	7	6AE	5AE				
Ammoniacal nitrogen as N (10:1 leachable)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		mg/l	0.05	A-T-033w

Envirolab Job Number: 25/02511

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: N/A

Lab Sample ID	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP-R2	TP-R3	TP-R4	TP-T2	TP-M75	TP-M78				
Depth to Top	0.60	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	24-Feb-25	24-Feb-25	24-Feb-25	27-Feb-25	03-Mar-25	03-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	5AE	5A	7	6AE	5AE				
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*	*	*	*	*	*				A-T-001
pH (10:1 leachable)$_A$	5.65	5.75	5.65	7.49	6.39	6.59		pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	<10	<10	<10	61	31	30		µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	<20	<20	<20	30	<20	<20		mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	1.03	<1.00	<1.00	<1.00	1.73	2.38		mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	<0.10	<0.10	<0.10	0.76	0.19	0.10		mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	<0.01	<0.01	0.01	0.01	0.01	<0.01		mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	<2.0	<2.0	<2.0	<2.0	20.3	25.7		mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.017	<0.001	0.001	0.009	0.004	0.002		mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	0.005	<0.004	<0.004	<0.004	<0.004	<0.004		mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	0.002	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	0.004	<0.001	<0.001	0.001	<0.001	0.002		mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.010	0.029	0.013	0.012	0.034	0.075		mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.17	<0.01	0.01	0.09	0.04	0.02		mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	10	<10	<10	<10	17	24		mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	0.02	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	0.05	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	Calc-no stones
DOC (10:1 cumulative mg/kg)	<200	<200	<200	<200	203	257		mg/kg	200	Calc-no stones
Fluoride (10:1 cumulative mg/kg)	<1	<1	<1	8	2	1		mg/kg	1	Calc-no stones

Envirolab Job Number: 25/02511 **Client Project Name: Lough Talt - 2024SO105**

Client Project Ref: N/A

Lab Sample ID	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6		Units	Limit of Detection	Method ref
Client Sample No										
Client Sample ID	TP-R2	TP-R3	TP-R4	TP-T2	TP-M75	TP-M78				
Depth to Top	0.60	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	24-Feb-25	24-Feb-25	24-Feb-25	27-Feb-25	03-Mar-25	03-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	5AE	5A	7	6AE	5AE				
Lead (10:1 cumulative mg/kg)	0.04	<0.01	<0.01	0.01	<0.01	0.02		mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	<0.1	<0.1	0.1	0.1	0.1	<0.1		mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	<10	<10	<10	<10	<10	<10		mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	<200	<200	<200	300	<200	<200		mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.10	0.29	0.13	0.12	0.34	0.75		mg/kg	0.02	Calc-no stones

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.
Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). "TRACE" will be reported as a quantification result.
PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/02511

Date Received: 12/03/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 8.9

Clients Project No: N/A

Lab Sample ID	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6
Client Sample No						
Client Sample ID/Depth	TP-R2 0.60-1.00m	TP-R3 0.50-1.00m	TP-R4 0.50-1.00m	TP-T2 0.50-1.00m	TP-M75 0.50-1.00m	TP-M78 0.50-1.00m
Date Sampled	24/02/25	24/02/25	24/02/25	27/02/25	03/03/25	03/03/25
Deviation Code						
F	✓	✓	✓	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6
Client Sample No						
Client Sample ID/Depth	TP-R2 0.60-1.00m	TP-R3 0.50-1.00m	TP-R4 0.50-1.00m	TP-T2 0.50-1.00m	TP-M75 0.50-1.00m	TP-M78 0.50-1.00m
Date Sampled	24/02/25	24/02/25	24/02/25	27/02/25	03/03/25	03/03/25
PAH-16MS plus Coronene	✓	✓	✓	✓		
VPHCWG	✓	✓	✓	✓		
Cyanide (total)	✓	✓	✓	✓		
Methyl Acrylate	✓	✓	✓		✓	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/02511/1	25/02511/2	25/02511/3	25/02511/4	25/02511/5	25/02511/6
Client Sample No						
Client Sample ID/Depth	TP-R2 0.60-1.00m	TP-R3 0.50-1.00m	TP-R4 0.50-1.00m	TP-T2 0.50-1.00m	TP-M75 0.50-1.00m	TP-M78 0.50-1.00m
Date Sampled	24/02/25	24/02/25	24/02/25	27/02/25	03/03/25	03/03/25
A-T-004s	17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
A-T-007s	17/03/2025	17/03/2025	17/03/2025	17/03/2025	19/03/2025	17/03/2025
A-T-019s	17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
A-T-022s	17/03/2025	17/03/2025	17/03/2025	18/03/2025	18/03/2025	18/03/2025
A-T-024s	19/03/2025	19/03/2025	19/03/2025	19/03/2025	20/03/2025	20/03/2025
A-T-025w	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
A-T-026w	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
A-T-026w (F)	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
A-T-027s	20/03/2025	20/03/2025	20/03/2025	20/03/2025	20/03/2025	21/03/2025
A-T-028s	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
A-T-029s	18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
A-T-031s	18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025	18/03/2025
A-T-031w	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
A-T-032s	20/03/2025	20/03/2025	20/03/2025	20/03/2025	20/03/2025	20/03/2025
A-T-032w	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
A-T-033w	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
A-T-037w	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
A-T-040s	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
A-T-042sTCN	17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
A-T-043-s	14/03/2025	14/03/2025	14/03/2025	14/03/2025	14/03/2025	14/03/2025
A-T-044	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
A-T-045	13/03/2025	13/03/2025	13/03/2025	13/03/2025	14/03/2025	14/03/2025
A-T-050s	17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025	17/03/2025
A-T-050w	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
A-T-055s	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
Calc	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
Calc-As Recd	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
Calc-no stones	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025
Probe (w)	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025	19/03/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Irish Water		
11 November 2025		
From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
TP-M09	0.50	1.00	ES	ES	19/03/25										1	EnvLab 25/03361/1
TP-M04	0.50	1.00	ES	ES	21/03/25										1	EnvLab 25/03361/2
TP-M52	0.40	0.80	ES	ES	18/03/25										1	EnvLab 25/03361/3
TP-M08	0.30	0.60	ES	ES	19/03/25										1	EnvLab 25/03361/4
TP-M03	0.50	1.00	ES	ES	21/03/25										1	EnvLab 25/03361/5
TP-M02	0.60	1.10	ES	ES	21/03/25										1	EnvLab 25/03361/6

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Certificate of Analysis

Report No.:	**25-03068-1**
Issue No.:	**1**
Date of Issue	**29/04/2025**
Customer Details:	Envirolab Ltd, 7 - 8 Sandpits Business Park, Mottram Road, Hyde, Greater Manchester, SK14 3AR, United Kingdom
Customer Contact:	Maleyka Owen-Agjef
Customer Order No.:	P0756584
Customer Reference:	Not Supplied
Quotation Reference:	Q25-03486 (Issue: 3)
Description:	6 geo samples
Date Received:	03/04/2025
Date Started:	04/04/2025
Date Completed:	29/04/2025
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **David Long, LIMS Manager**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

RPS Environmental Management Limited trading as RPS Mountainheath. Registered in England No. 01756175.
13 St Martins Way, Bedford, Bedfordshire, MK42 0LF. T +44 1462 480 400
A member of the RPS Group plc. Terms and conditions apply - copy on request

Results Summary

Report No.: 25-03068-1

Customer Reference: Not Supplied

Customer Order No: P0756584

Customer Sample No	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5	25/03361/6
RPS Sample No	90310	90311	90312	90313	90314	90315
Sample Type	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**
Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	19/03/2025	21/03/2025	18/03/2025	19/03/2025	21/03/2025	21/03/2025

Determinand	CAS No	Codes	SOP	RL	Units						
methyl acrylate	96-33-3	N	G132	0.1	mg/kg AR	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)

Deviating Samples

Report No.: 25-03068-1

Customer Reference: Not Supplied

Customer Order No: P0756584

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
90310	25/03361/1		19/03/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
90311	25/03361/2		21/03/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
90312	25/03361/3		18/03/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
90313	25/03361/4		19/03/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
90314	25/03361/5		21/03/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
90315	25/03361/6		21/03/2025	250 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).

Report No.: 25-03068-1

Type	Matrix Code	Description
Food	CEREALPROD	Cereals, grains & products
Food	DRIEDFRUIT	Dried fruits
Food	FRIEDBAKED	Fried or baked food
Food	LEGUME	Legumes
Food	MEAT	Meat
Food	POWDERED	Powdered food
Food	PULSE	Pulses (dried legumes)
Food	VEGETABLES	Vegetables
Gas	TDTUBE	TD Tube
Gas	TENAX	Tenax Tube
Gas	TUBE	Tube
Gas	VAPOUR	Gas
Geological	SED_MAR	Marine Sediment
Geological	SED_RIV	River Sediment
Geological	SLUDG_SOL	Sludge (solid only)
Geological	SOIL	Soil
Liquid	BEVERAGE	Beverage
Liquid	BLOOD	Blood
Liquid	CONDENSATE	Condensate
Liquid	FOAM_LIQ	Liquid foam
Liquid	FORMULATN	Formula
Liquid	LEACHATE	Leachate
Liquid	OIL/GREASE	Oil or grease
Liquid	SLUDG_LIQ	Sludge (liquid only)
Liquid	SOLVENT	Solvent
Liquid	URINE	Urine
Sludge	SLUDG_WHL	Sludge for bulk route
Solid	BADGE	Badge
Solid	BEDDING	Bedding
Solid	BIOTA	Biota (general)
Solid	BIOTA_F	Biota (fish)
Solid	BIOTA_SF	Biota (shellfish)
Solid	CONSTRCTN	Construction materials
Solid	FABRIC	Fabrics & furnishing materials
Solid	FEED	Animal feed
Solid	FERTILISER	Fertiliser
Solid	FILTER	Filter
Solid	FOAM	Solid foam material
Solid	LATEX	Latex/Rubber
Solid	PACKAGING	Packaging material
Solid	PAPER	Paper
Solid	PLANT	Plant (vegetation)
Solid	POWDER	Powder
Solid	SWAB	Swab
Water	BAL	Ballast Water
Water	BIL	Bilge Water
Water	DW	Drinking Water
Water	EFFLUENT	Effluent
Water	GW	Ground Water
Water	INFLUENT	Influent
Water	MINEW	Mine Water
Water	MW	Mineral Water
Water	SALTW	Salt Water
Water	SW	Surface Water
Water	TW	Tap Water
Water	W	Unknown Water

Report No.: 25-03068-1

Key Code	Description
N	Not Accredited Test
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
UF	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
O	Marine Management Organisation (MMO) Validated
SN	Subcontracted to approved laboratory not accredited for the test
SU	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SIN	Subcontracted to internal RPS Group laboratory not accredited for the test
SIU	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
SIM	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
*	Modified standard method
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis
L (in results)	Result is outside normal limits

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 month (if frozen) from the issue date of this report
Waters	2 weeks from the issue date of this report
Other Liquids	1 month from the issue date of this report
Solids / Soils	1 month from the issue date of this report
Sediments	1 month from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

Soil Typing	Description
Type 1	Clay - Brown
Type 2	Clay - Grey/Black
Type 3	Sand
Type 4	Top Soil (Standard)
Type 5	Top Soil (High Peat)
Type 6	Made Ground (>50% Clay)
Type 7	Made Ground (>50% Sand)
Type 8	Made Ground (>50% Top Soil)
Type X	Other

Dev code	Description
D	No sampling date provided.
T	No sampling time provided.
Z	Temperature of samples exceeded in transit/storage.
V	Excessive headspace for volatile determinands.
P	Sample submitted without required preservative(s).
C	Incorrect container.
H	Holding time exceeded (sampling to extraction).
X	Holding time exceeded (sampling to receipt).

Note: Where the following information is included in this certificate, it has usually been supplied by the customer: Customer Sample ID, Sample Location, Sample Depth, Sampling Date and Sampling Time. The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

Final Test Report

Envirolab Job Number:	25/03361		
Issue Number:	1	Date:	29-Apr-25

Client: Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager:	Damien O'Reilly/IDL Lab
Project Name:	Lough Talt - 2024SO105
Project Ref:	Not specified
Order No:	PKB21191
Date Samples Received:	31-Mar-25
Date Instructions Received:	1-Apr-25
Date Analysis Completed:	29-Apr-25

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

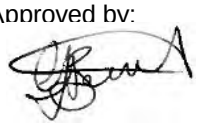
IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Gemma Berrisford
Client Services Manager

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/03361/1				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM09				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				19/03/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.64**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.39**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.003	**0.030**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.002	**0.020**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.016	**0.160**	4	50	200
Chloride	A-T-026	N	N	1	**11**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	51	**510**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.6				
Conductivity (µS/cm)	A-T-037	N	N	102				
Mass Sample (kg)				0.246				
Dry Matter (%)	A-T-044	N	N	71.1				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

envirolab

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/03361/2				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM04				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				21/03/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.66**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**4.56**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.138	**1.380**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	0.005	**0.050**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	0.006	**0.060**	0.4	10	40
Lead	A-T-025	N	N	0.002	**0.020**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.082	**0.820**	4	50	200
Chloride	A-T-026	N	N	3	**26**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	3	**35**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	6.9				
Conductivity (µS/cm)	A-T-037	N	N	37				
Mass Sample (kg)				0.233				
Dry Matter (%)	A-T-044	N	N	75				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/03361/3				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM52				
Depth to Top				0.4				
Depth to Bottom				0.80				
Date Sampled				18/03/2025				
Sample Type				Solid				
Sample Matrix Code				7				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.35**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**3.95**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.013	**0.130**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.032	**0.320**	4	50	200
Chloride	A-T-026	N	N	4	**43**	800	15000	25000
Fluoride	A-T-026	N	N	0.2	**2.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	94	**940**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.7				
Conductivity (µS/cm)	A-T-037	N	N	188				
Mass Sample (kg)				0.355				
Dry Matter (%)	A-T-044	N	N	49.3				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/03361/4				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM08				
Depth to Top				0.3				
Depth to Bottom				0.60				
Date Sampled				19/03/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.72**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.82**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.003	**0.030**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.003	**0.030**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.016	**0.160**	4	50	200
Chloride	A-T-026	N	N	1	**11**	800	15000	25000
Fluoride	A-T-026	N	N	0.6	**6.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	1	**10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	58	**580**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.8				
Conductivity (µS/cm)	A-T-037	N	N	116				
Mass Sample (kg)				0.217				
Dry Matter (%)	A-T-044	N	N	80.6				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/03361/5				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM03				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				21/03/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.75**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.64**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	0.003	**0.030**	0.5	2	25
Barium	A-T-025	N	N	0.033	**0.330**	20	100	300
Cadmium	A-T-025	N	N	0.002	**0.020**	0.04	1	5
Chromium	A-T-025	N	N	0.001	**0.010**	0.5	10	70
Copper	A-T-025	N	N	0.014	**0.140**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	0.012	**0.120**	0.4	10	40
Lead	A-T-025	N	N	0.012	**0.120**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	0.005	**0.050**	0.1	0.5	7
Zinc	A-T-025	N	N	0.034	**0.340**	4	50	200
Chloride	A-T-026	N	N	8	**82**	800	15000	25000
Fluoride	A-T-026	N	N	0.6	**6.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	14	**139**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	53	**530**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.7				
Conductivity (µS/cm)	A-T-037	N	N	105				
Mass Sample (kg)				0.245				
Dry Matter (%)	A-T-044	N	N	71.5				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/03361/6				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM02				
Depth to Top				0.6				
Depth to Bottom				1.10				
Date Sampled				21/03/2025				
Sample Type				Solid				
Sample Matrix Code				7				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.14**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.33**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.022	**0.220**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	0.008	**0.080**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	0.007	**0.070**	0.4	10	40
Lead	A-T-025	N	N	0.007	**0.070**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.041	**0.410**	4	50	200
Chloride	A-T-026	N	N	2	**17**	800	15000	25000
Fluoride	A-T-026	N	N	0.3	**3.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	6	**56**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	46	**460**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.8				
Conductivity (µS/cm)	A-T-037	N	N	92				
Mass Sample (kg)				0.2				
Dry Matter (%)	A-T-044	N	N	87.5				

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Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/03361
Issue Number: 1 **Date:** 29 April, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: Not specified
Order No: PKB21191
Date Samples Received: 31/03/25
Date Instructions Received: 01/04/25
Date Analysis Completed: 29/04/25

Approved by:

Gemma Lancashire
Operations Manager

Envirolab Job Number: 25/03361

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5	25/03361/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM09	TPM04	TPM52	TPM08	TPM03	TPM02				
Depth to Top	0.50	0.50	0.40	0.30	0.50	0.60				
Depth To Bottom	1.00	1.00	0.80	0.60	1.00	1.10				
Date Sampled	19-Mar-25	21-Mar-25	18-Mar-25	19-Mar-25	21-Mar-25	21-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES	SOLID				
Sample Matrix Code	6AE	6AE	7	4AE	6A	7				
% Moisture at <40C$_A$	34.1	34.7	22.5	17.4	27.7	8.1		% w/w	0.1	A-T-044
% Stones >10mm$_A$	3.9	<0.1	<0.1	<0.1	<0.1	<0.1		% w/w	0.1	A-T-044
pH$_D^{M\#}$	7.64	6.66	7.35^U	7.72	7.75	8.14^U		pH	0.01	A-T-031s
Sulphate (acid soluble)$_D^{M\#}$	<400	740	890^U	460	<400	500^U		mg/kg	200	A-T-028s
Cyanide (total)$_A^{M\#}$	<1	<1	<1^U	<1	<1	<1^U		mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Sulphide$_A$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-043-s
Sulphur (elemental)$_D^{M\#}$	<5	6	<5^U	<5	<5	<5^U		mg/kg	5	A-T-029s
Total Organic Carbon$_D^{M\#}$	1.39	4.56	3.95^U	1.82	0.64	2.33^U		% w/w	0.08	A-T-032s
Antimony$_D$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-024s
Arsenic$_D^{M\#}$	2	2	1^U	3	3	12^U		mg/kg	1	A-T-024s
Barium$_D^{\#}$	18	35	16^U	35	22	20^U		mg/kg	3	A-T-024s
Boron (water soluble)$_D^{M\#}$	<1.0	<1.0	<1.0^U	<1.0	<1.0	<1.0^U		mg/kg	1	A-T-027s
Cadmium$_D^{M\#}$	<0.5	<0.5	<0.5^U	<0.5	<0.5	<0.5^U		mg/kg	0.5	A-T-024s
Copper$_D^{M\#}$	5	8	4^U	20	23	37^U		mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	6	8	9^U	34	33	18^U		mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Chromium (trivalent)	6	8	9	34	33	18		mg/kg	1	Calc
Lead$_D^{M\#}$	18	35	5^U	14	17	12^U		mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Molybdenum$_D^{M\#}$	<1	<1	<1^U	<1	<1	27^U		mg/kg	1	A-T-024s
Nickel$_D^{M\#}$	5	6	6^U	35	41	47^U		mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	<1	<1	<1^U	<1	<1	2^U		mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	21	32	16^U	85	87	36^U		mg/kg	1	A-T-024s
Mineral Oil (>C10-C40)$_A$	<10	<10	<10	<10	<10	<10		mg/kg	10	A-T-007s
Methyl Acrylate$_A$	Appended	Appended	Appended	Appended	Appended	Appended		mg/kg	0.1	Subcon RPS MH

Envirolab Job Number: 25/03361

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5	25/03361/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM09	TPM04	TPM52	TPM08	TPM03	TPM02				
Depth to Top	0.50	0.50	0.40	0.30	0.50	0.60				
Depth To Bottom	1.00	1.00	0.80	0.60	1.00	1.10				
Date Sampled	19-Mar-25	21-Mar-25	18-Mar-25	19-Mar-25	21-Mar-25	21-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES	SOLID				
Sample Matrix Code	6AE	6AE	7	4AE	6A	7				
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil$_D^{\#}$	NAD	NAD	NAD^U	NAD	NAD	NAD^U				A-T-045
Asbestos Matrix (visual)$_D$	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope)$_D$	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 25/03361

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5	25/03361/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM09	TPM04	TPM52	TPM08	TPM03	TPM02				
Depth to Top	0.50	0.50	0.40	0.30	0.50	0.60				
Depth To Bottom	1.00	1.00	0.80	0.60	1.00	1.10				
Date Sampled	19-Mar-25	21-Mar-25	18-Mar-25	19-Mar-25	21-Mar-25	21-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES	SOLID				
Sample Matrix Code	6AE	6AE	7	4AE	6A	7				
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	<0.01	<0.01	<0.01^U	<0.01	<0.01	<0.01^U		mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	<0.01	<0.01^U	<0.01	<0.01	<0.01^U		mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02	<0.02	<0.02^U	<0.02	<0.02	<0.02^U		mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04^U	<0.04	<0.04	<0.04^U		mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04	<0.04	<0.04^U	<0.04	<0.04	<0.04^U		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05	<0.05	<0.05^U	<0.05	<0.05	<0.05^U		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05	<0.05	<0.05^U	<0.05	<0.05	<0.05^U		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	<0.07	<0.07^U	<0.07	<0.07	<0.07^U		mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06	<0.06	<0.06^U	<0.06	<0.06	<0.06^U		mg/kg	0.06	A-T-019s
Coronene$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04^U	<0.04	<0.04	<0.04^U		mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.08	<0.08	<0.08^U	<0.08	<0.08	<0.08^U		mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	<0.01	<0.01^U	<0.01	<0.01	<0.01^U		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03	<0.03	<0.03^U	<0.03	<0.03	<0.03^U		mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	<0.03^U	<0.03	<0.03	<0.03^U		mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.03	<0.03	<0.03^U	<0.03	<0.03	<0.03^U		mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07	<0.07	<0.07^U	<0.07	<0.07	<0.07^U		mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	<0.08	<0.08	<0.08^U	<0.08	<0.08	<0.08^U		mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/03361 **Client Project Name: Lough Talt - 2024SO105**

Client Project Ref: Not specified

Lab Sample ID	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5	25/03361/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM09	TPM04	TPM52	TPM08	TPM03	TPM02				
Depth to Top	0.50	0.50	0.40	0.30	0.50	0.60				
Depth To Bottom	1.00	1.00	0.80	0.60	1.00	1.10				
Date Sampled	19-Mar-25	21-Mar-25	18-Mar-25	19-Mar-25	21-Mar-25	21-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES	SOLID				
Sample Matrix Code	6AE	6AE	7	4AE	6A	7				
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.003	<0.003	<0.003^U	<0.003	<0.003	<0.003^U		mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002^U	<0.002	<0.002	<0.002^U		mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004^U	<0.004	<0.004	<0.004^U		mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007^U	<0.007	<0.007	<0.007^U		mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006^U	<0.006	<0.006	<0.006^U		mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004^U	<0.004	<0.004	<0.004^U		mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004^U	<0.004	<0.004	<0.004^U		mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7$_A^{M\#}$	<0.007	<0.007	<0.007^U	<0.007	<0.007	<0.007^U		mg/kg	0.003	A-T-004s

Envirolab Job Number: 25/03361

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5	25/03361/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM09	TPM04	TPM52	TPM08	TPM03	TPM02				
Depth to Top	0.50	0.50	0.40	0.30	0.50	0.60				
Depth To Bottom	1.00	1.00	0.80	0.60	1.00	1.10				
Date Sampled	19-Mar-25	21-Mar-25	18-Mar-25	19-Mar-25	21-Mar-25	21-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES	SOLID				
Sample Matrix Code	6AE	6AE	7	4AE	6A	7				
Envirolab WAC A (Leachate only) 10:1										
Mass Sample (1 stage WAC)	0.246	0.233	0.355	0.217	0.245	0.200		Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	71.1	75.0	49.3	80.6	71.5	87.5		% w/w	0.1	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1^U	<1	<1	<1^U		mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<1^U	<1	<1	<1^U		mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	<1	<1	1^U	<1	<1	<1^U		mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	3	11	28^U	5	<1	3^U		mg/kg	1	A-T-055s
Total Aliphatics$_A$	3	11	32	5	<1	3		mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01^U	<0.01	<0.01	<0.01^U		mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01^U	<0.01	<0.01	<0.01^U		mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C12-C16$_A$	<1	<1	3	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	<1	<1	18^U	<1	<1	<1^U		mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	3	3	30^U	<1	<1	<1^U		mg/kg	1	A-T-055s
Aro >C35-C40$_A$	<1	<1	3	<1	<1	<1		mg/kg	1	A-T-055s
Total Aromatics$_A$	3	3	53	<1	<1	<1		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	6	14	85	5	<1	3		mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01^U	<0.01	<0.01	<0.01^U		mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01^U	<0.01	<0.01	<0.01^U		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01^U	<0.01	<0.01	<0.01^U		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01^U	<0.01	<0.01	<0.01^U		mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01^U	<0.01	<0.01	<0.01^U		mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01^U	<0.01	<0.01	<0.01^U		mg/kg	0.01	A-T-022s
Ali >C35-C40$_A$	<1	<1	3	<1	<1	<1		mg/kg	1	A-T-055s

Envirolab Job Number: 25/03361

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5	25/03361/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM09	TPM04	TPM52	TPM08	TPM03	TPM02				
Depth to Top	0.50	0.50	0.40	0.30	0.50	0.60				
Depth To Bottom	1.00	1.00	0.80	0.60	1.00	1.10				
Date Sampled	19-Mar-25	21-Mar-25	18-Mar-25	19-Mar-25	21-Mar-25	21-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES	SOLID				
Sample Matrix Code	6AE	6AE	7	4AE	6A	7				
Ammoniacal nitrogen as N (10:1 leachable)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		mg/l	0.05	A-T-033w

Envirolab Job Number: 25/03361

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5	25/03361/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM09	TPM04	TPM52	TPM08	TPM03	TPM02				
Depth to Top	0.50	0.50	0.40	0.30	0.50	0.60				
Depth To Bottom	1.00	1.00	0.80	0.60	1.00	1.10				
Date Sampled	19-Mar-25	21-Mar-25	18-Mar-25	19-Mar-25	21-Mar-25	21-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES	SOLID				
Sample Matrix Code	6AE	6AE	7	4AE	6A	7				
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*	*	*	*	*	*				A-T-001
pH (10:1 leachable)$_A$	7.62	6.94	7.71	7.77	7.73	7.81		pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	102	37	188	116	105	92		µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	51	<20	94	58	53	46		mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	1.13	2.63	4.33	1.09	8.15	1.70		mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	0.37	0.37	0.18	0.55	0.62	0.26		mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	<1.00	3.48	<1.00	1.03	13.89	5.55		mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	0.003	<0.001		mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.003	0.138	0.013	0.003	0.033	0.022		mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	0.002	<0.001		mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	<0.004	0.005	<0.004	<0.004	0.014	0.008		mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	0.001	<0.001		mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	<0.001	0.002	<0.001	<0.001	0.012	0.007		mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	0.002	<0.001	<0.001	0.003	<0.001	<0.001		mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	<0.002	0.006	<0.002	<0.002	0.012	0.007		mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	0.005	<0.001		mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.016	0.082	0.032	0.016	0.034	0.041		mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	0.03	<0.01		mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.03	1.38	0.13	0.03	0.33	0.22		mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	0.02	<0.01		mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	11	26	43	11	82	17		mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	0.01	<0.01		mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	<0.04	0.05	<0.04	<0.04	0.14	0.08		mg/kg	0.04	Calc-no stones
DOC (10:1 cumulative mg/kg)	<200	<200	<200	<200	<200	<200		mg/kg	200	Calc-no stones
Fluoride (10:1 cumulative mg/kg)	4	4	2	6	6	3		mg/kg	1	Calc-no stones

Envirolab Job Number: 25/03361 **Client Project Name: Lough Talt - 2024SO105**

Client Project Ref: Not specified

Lab Sample ID	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5	25/03361/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM09	TPM04	TPM52	TPM08	TPM03	TPM02				
Depth to Top	0.50	0.50	0.40	0.30	0.50	0.60				
Depth To Bottom	1.00	1.00	0.80	0.60	1.00	1.10				
Date Sampled	19-Mar-25	21-Mar-25	18-Mar-25	19-Mar-25	21-Mar-25	21-Mar-25				
Sample Type	SOIL - ES	SOIL - ES	SOLID	SOIL - ES	SOIL - ES	SOLID				
Sample Matrix Code	6AE	6AE	7	4AE	6A	7				
Lead (10:1 cumulative mg/kg)	<0.01	0.02	<0.01	<0.01	0.12	0.07		mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	0.02	<0.01	<0.01	0.03	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	<0.02	0.06	<0.02	<0.02	0.12	0.07		mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	0.05	<0.01		mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	<10	35	<10	10	139	56		mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	510	<200	940	580	530	460		mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.16	0.82	0.32	0.16	0.34	0.41		mg/kg	0.02	Calc-no stones

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.
Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). "TRACE" will be reported as a quantification result.
PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/03361

Date Received: 01/04/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 11.2

Clients Project No:

Lab Sample ID	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5
Client Sample No	1	1	1	1	1
Client Sample ID/Depth	TPM09 0.50-1.00m	TPM04 0.50-1.00m	TPM52 0.40-0.80m	TPM08 0.30-0.60m	TPM03 0.50-1.00m
Date Sampled	19/03/25	21/03/25	18/03/25	19/03/25	21/03/25
Deviation Code					
F	✓	✓	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5
Client Sample No	1	1	1	1	1
Client Sample ID/Depth	TPM09 0.50-1.00m	TPM04 0.50-1.00m	TPM52 0.40-0.80m	TPM08 0.30-0.60m	TPM03 0.50-1.00m
Date Sampled	19/03/25	21/03/25	18/03/25	19/03/25	21/03/25
PAH-16MS plus Coronene	✓	✓	✓	✓	✓
VPHCWG	✓		✓	✓	
Cyanide (total)	✓	✓	✓	✓	✓
Methyl Acrylate	✓	✓		✓	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/03361/1	25/03361/2	25/03361/3	25/03361/4	25/03361/5	25/03361/6
Client Sample No	1	1	1	1	1	1
Client Sample ID/Depth	TPM09 0.50-1.00m	TPM04 0.50-1.00m	TPM52 0.40-0.80m	TPM08 0.30-0.60m	TPM03 0.50-1.00m	TPM02 0.60-1.10m
Date Sampled	19/03/25	21/03/25	18/03/25	19/03/25	21/03/25	21/03/25
A-T-004s	07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025
A-T-007s	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025
A-T-019s	10/04/2025	10/04/2025	10/04/2025	10/04/2025	10/04/2025	10/04/2025
A-T-022s	07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025
A-T-024s	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025
A-T-025w	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025
A-T-026w	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025
A-T-026w (F)	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025
A-T-027s	10/04/2025	10/04/2025	10/04/2025	10/04/2025	10/04/2025	10/04/2025
A-T-028s	15/04/2025	14/04/2025	14/04/2025	14/04/2025	15/04/2025	14/04/2025
A-T-029s	10/04/2025	10/04/2025	10/04/2025	10/04/2025	10/04/2025	10/04/2025
A-T-031s	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025
A-T-031w	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025
A-T-032s	15/04/2025	15/04/2025	15/04/2025	15/04/2025	15/04/2025	15/04/2025
A-T-032w	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025
A-T-033w	08/04/2025	08/04/2025	08/04/2025	08/04/2025	08/04/2025	08/04/2025
A-T-037w	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025
A-T-040s	10/04/2025	10/04/2025	10/04/2025	10/04/2025	10/04/2025	10/04/2025
A-T-042sTCN	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025
A-T-043-s	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025
A-T-044	07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025	07/04/2025
A-T-045	04/04/2025	04/04/2025	04/04/2025	04/04/2025	04/04/2025	04/04/2025
A-T-050s	04/04/2025	04/04/2025	04/04/2025	04/04/2025	04/04/2025	04/04/2025
A-T-050w	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025
A-T-055s	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025
Calc	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025
Calc-As Recd	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025	09/04/2025
Calc-no stones	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025
Probe (w)	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025	14/04/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Irish Water		
11 November 2025		
From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
BH-M22	0.50	1.00	ES	ES	02/04/25										1	EnvLab 25/04007/1
TP-M05	0.50	1.00	ES	ES	26/03/25										1	EnvLab 25/04007/2
TP-M06	0.50	1.00	ES	ES	26/03/25										1	EnvLab 25/04007/3
TP-M07	0.50	1.00	ES	ES	26/03/25										1	EnvLab 25/04007/4
TP-M11	0.50	1.00	ES	ES	02/04/25										1	EnvLab 25/04007/5
TP-M16	0.50	1.00	ES	ES	08/04/25										1	EnvLab 25/04007/6

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/04007
Issue Number: 1 **Date:** 17 July, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: 2024SO105
Order No: PKB21191
Date Samples Received: 16/04/25
Date Instructions Received: 16/04/25
Date Analysis Completed: 17/07/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/04007

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	BHM22	TPM05	TPM06	TPM07	TPM11	TPM16				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	02-Apr-25	26-Mar-25	26-Mar-25	26-Mar-25	02-Apr-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	5ABE	4AE	5AE	5AE	4AE	6AE				
% Moisture at <40C$_A$	23.3	11.5	25.1	13.0	15.9	37.4		% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	8.9	<0.1	26.8	<0.1	<0.1		% w/w	0.1	A-T-044
pH$_D^{M\#}$	5.26	7.68	6.70	7.57	7.72	5.17		pH	0.01	A-T-031s
Sulphate (acid soluble)$_D^{M\#}$	380	420	250	<400	550	4900		mg/kg	200	A-T-028s
Cyanide (total)$_A^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Sulphide$_A$	<25	<25	<25	<25	<5	<5		mg/kg	5	A-T-043-s
Sulphur (elemental)$_D^{M\#}$	<5	<5	<5	<5	<5	13		mg/kg	5	A-T-029s
Total Organic Carbon$_D^{M\#}$	1.97	1.53	1.49	0.67	3.62	45.8		% w/w	0.08	A-T-032s
Antimony$_D$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-024s
Arsenic$_D^{M\#}$	<1	2	1	1	3	2		mg/kg	1	A-T-024s
Barium$_D^{\#}$	12	23	22	21	16	39		mg/kg	3	A-T-024s
Boron (water soluble)$_D^{M\#}$	<1.0	<1.0	<1.0	<1.0	<1.0	7.8		mg/kg	1	A-T-027s
Cadmium$_D^{M\#}$	<0.5	<0.5	0.7	0.7	0.6	3.1		mg/kg	1	A-T-024s
Copper$_D^{M\#}$	7	6	4	7	11	6		mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	11	8	12	8	7	1		mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<4		mg/kg	1	A-T-040s
Chromium (trivalent)	11	8	12	8	7	<4		mg/kg	1	Calc
Lead$_D^{M\#}$	6	5	6	4	23	<1		mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Molybdenum$_D^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Nickel$_D^{M\#}$	7	13	15	14	14	12		mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	<1	<1	<1	<1	<1	4		mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	24	23	79	22	35	5		mg/kg	1	A-T-024s
Mineral Oil (>C10-C40)$_A$	<10	11	<10	<10	76	<10		mg/kg	10	A-T-007s
Methyl Acrylate$_A$	Appended	Appended	Appended	Appended	Appended	Appended		mg/kg	0.1	Subcon RPS MH
Acrylonitrile$_A$	Appended	Appended	Appended	Appended	Appended	Appended		µg/kg	10	Subcon Chemtest

Envirolab Job Number: 25/04007

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	BHM22	TPM05	TPM06	TPM07	TPM11	TPM16				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	02-Apr-25	26-Mar-25	26-Mar-25	26-Mar-25	02-Apr-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	5ABE	4AE	5AE	5AE	4AE	6AE				
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil$_D^{\#}$	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos Matrix (visual)$_D$	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope)$_D$	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 25/04007

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	BHM22	TPM05	TPM06	TPM07	TPM11	TPM16				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	02-Apr-25	26-Mar-25	26-Mar-25	26-Mar-25	02-Apr-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	5ABE	4AE	5AE	5AE	4AE	6AE				
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	0.02	<0.01		mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	0.11	<0.01		mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02	<0.02	<0.02	<0.02	0.33	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	1.50	<0.04		mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	2.21	<0.04		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05	2.60	<0.05		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05	<0.05	<0.05	<0.05	1.89	<0.05		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07	0.87	<0.07		mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06	<0.06	<0.06	<0.06	2.00	<0.06		mg/kg	0.06	A-T-019s
Coronene$_A$	<0.01	<0.01	<0.01	<0.01	0.57	<0.01		mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04	<0.04	0.26	<0.04		mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.08	<0.08	<0.08	<0.08	2.56	<0.08		mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	0.02	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	1.49	<0.03		mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	0.33	<0.03		mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07	<0.07	<0.07	<0.07	2.78	<0.07		mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	<0.08	<0.08	<0.08	<0.08	19.5	<0.08		mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/04007

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	BHM22	TPM05	TPM06	TPM07	TPM11	TPM16				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	02-Apr-25	26-Mar-25	26-Mar-25	26-Mar-25	02-Apr-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	5ABE	4AE	5AE	5AE	4AE	6AE				
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7$_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.003	A-T-004s

Envirolab Job Number: 25/04007

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	BHM22	TPM05	TPM06	TPM07	TPM11	TPM16				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	02-Apr-25	26-Mar-25	26-Mar-25	26-Mar-25	02-Apr-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	5ABE	4AE	5AE	5AE	4AE	6AE				
Envirolab WAC A (Leachate only) 10:1										
Mass Sample (1 stage WAC)	0.249	0.197	0.236	0.219	0.208	0.280		Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	70.3	88.7	74.2	80.1	84.0	62.6		% w/w	0.1	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<5	<1		mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1	<5	<1		mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<1	<1	<5	<1		mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	4	<1	<1	<1	<5	<1		mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	26	10	3	<1	61	30		mg/kg	1	A-T-055s
Total Aliphatics$_A$	34	13	3	<1	94	34		mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	<1	<1	<5	<1		mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	<1	<1	<5	<1		mg/kg	1	A-T-055s
Aro >C12-C16$_A$	1	1	<1	<1	8	2		mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	4	1	<1	<1	44	5		mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	5	2	3	<1	361	11		mg/kg	1	A-T-055s
Aro >C35-C40$_A$	3	2	<1	<1	38	5		mg/kg	1	A-T-055s
Total Aromatics$_A$	13	6	3	<1	452	22		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	47	20	5	<1	546	56		mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C35-C40$_A$	4	3	<1	<1	33	3		mg/kg	1	A-T-055s

Envirolab Job Number: 25/04007

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	BHM22	TPM05	TPM06	TPM07	TPM11	TPM16				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	02-Apr-25	26-Mar-25	26-Mar-25	26-Mar-25	02-Apr-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	5ABE	4AE	5AE	5AE	4AE	6AE				
Ammoniacal nitrogen as N (10:1 leachable)$_A$	0.25	0.05	<0.05	<0.05	<0.05	IS		mg/l	0.05	A-T-033w

Envirolab Job Number: 25/04007

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	BHM22	TPM05	TPM06	TPM07	TPM11	TPM16				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	02-Apr-25	26-Mar-25	26-Mar-25	26-Mar-25	02-Apr-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	5ABE	4AE	5AE	5AE	4AE	6AE				
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*	*	*	*	*	IS				A-T-001
pH (10:1 leachable)$_A$	5.86	7.96	7.56	7.94	8.23	IS		pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	24	92	93	78	87	IS		µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	<20	46	46	39	43	IS		mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	2.40	2.26	2.82	<1.00	3.19	IS		mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	0.21	0.31	0.40	0.37	0.13	IS		mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	<1.00	2.80	1.67	<1.00	<1.00	IS		mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	0.01	0.01	0.01	<0.01	0.01	IS		mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	28.2	<2.0	<2.0	<2.0	<2.0	IS		mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	IS		mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	IS		mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.004	0.014	0.014	0.002	0.006	IS		mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	IS		mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	0.006	<0.004	<0.004	<0.004	<0.004	IS		mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	0.001	<0.001	0.002	<0.001	<0.001	IS		mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	0.002	0.001	0.004	<0.001	0.004	IS		mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	IS		mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	0.002	IS		mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	<0.002	0.003	0.006	<0.002	0.003	IS		mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	IS		mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.059	0.012	0.034	0.005	0.011	IS		mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	IS		mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	IS		mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.04	0.14	0.14	0.02	0.06	IS		mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	IS		mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	24	23	28	<10	32	IS		mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	0.01	<0.01	0.02	<0.01	<0.01	IS		mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	0.06	<0.04	<0.04	<0.04	<0.04	IS		mg/kg	0.04	Calc-no stones
DOC (10:1 cumulative mg/kg)	282	<200	<200	<200	<200	IS		mg/kg	200	Calc-no stones
Fluoride (10:1 cumulative mg/kg)	2	3	4	4	1	IS		mg/kg	1	Calc-no stones

Envirolab Job Number: 25/04007

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	BHM22	TPM05	TPM06	TPM07	TPM11	TPM16				
Depth to Top	0.50	0.50	0.50	0.50	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	02-Apr-25	26-Mar-25	26-Mar-25	26-Mar-25	02-Apr-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	5ABE	4AE	5AE	5AE	4AE	6AE				
Lead (10:1 cumulative mg/kg)	0.02	0.01	0.04	<0.01	0.04	IS		mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005	<0.005	<0.005	<0.005	<0.005	IS		mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	0.02	IS		mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	<0.02	0.03	0.06	<0.02	0.03	IS		mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	0.1	0.1	0.1	<0.1	0.1	IS		mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	IS		mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	<10	28	17	<10	<10	IS		mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	<200	460	460	390	430	IS		mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.59	0.12	0.34	0.05	0.11	IS		mg/kg	0.02	Calc-no stones

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/04007

Date Received: 16/04/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 11.5

Clients Project No: 2024SO105

Lab Sample ID	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6
Client Sample No	1	1	1	1	1	1
Client Sample ID/Depth	BHM22 0.50-1.00m	TPM05 0.50-1.00m	TPM06 0.50-1.00m	TPM07 0.50-1.00m	TPM11 0.50-1.00m	TPM16 0.50-1.00m
Date Sampled	02/04/25	26/03/25	26/03/25	26/03/25	02/04/25	
Deviation Code						
E (no date)						✓
F	✓	✓	✓	✓	✓	✓

Key
E (no date) *No sampling date provided (all results affected if not provided)*
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6
Client Sample No	1	1	1	1	1	1
Client Sample ID/Depth	BHM22 0.50-1.00m	TPM05 0.50-1.00m	TPM06 0.50-1.00m	TPM07 0.50-1.00m	TPM11 0.50-1.00m	TPM16 0.50-1.00m
Date Sampled	02/04/25	26/03/25	26/03/25	26/03/25	02/04/25	
Acrylonitrile	✓	✓	✓	✓	✓	✓
PAH-16MS plus Coronene	✓	✓	✓	✓	✓	
VPHCWG	✓	✓	✓	✓	✓	
Cyanide (total)	✓	✓	✓	✓	✓	
Methyl Acrylate	✓	✓	✓	✓	✓	✓
Total Organic Carbon		✓	✓	✓		
Sulphate (acid soluble)		✓	✓	✓		

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3,

ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6
Client Sample No	1	1	1	1	1	1
Client Sample ID/Depth	BHM22 0.50-1.00m	TPM05 0.50-1.00m	TPM06 0.50-1.00m	TPM07 0.50-1.00m	TPM11 0.50-1.00m	TPM16 0.50-1.00m
Date Sampled	02/04/25	26/03/25	26/03/25	26/03/25	02/04/25	
A-T-004s	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025
A-T-007s	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025
A-T-019s	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025
A-T-022s	23/04/2025	23/04/2025	23/04/2025	23/04/2025	23/04/2025	23/04/2025
A-T-024s	28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
A-T-025w	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-026w	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-026w (F)	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-027s	28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025	28/04/2025
A-T-028s	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-029s	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-031s	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-031w	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-032s	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-032w	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-033w	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025	29/04/2025
A-T-037w	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-040s	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-042sTCN	23/04/2025	23/04/2025	23/04/2025	23/04/2025	23/04/2025	23/04/2025
A-T-043-s	22/04/2025	22/04/2025	22/04/2025	22/04/2025	22/04/2025	22/04/2025
A-T-044	25/04/2025	25/04/2025	25/04/2025	25/04/2025	25/04/2025	25/04/2025
A-T-045	22/04/2025	22/04/2025	22/04/2025	22/04/2025	22/04/2025	22/04/2025
A-T-050s	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025	24/04/2025
A-T-050w	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-055s	24/04/2025	24/04/2025	24/04/2025	24/04/2025	25/04/2025	24/04/2025
Calc	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
Calc-As Recd	24/04/2025	24/04/2025	24/04/2025	24/04/2025	25/04/2025	24/04/2025
Calc-no stones	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
Probe (w)	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 25-14804-1

Initial Date of Issue: 14-May-2025

Re-Issue Details:

Client *Envirolab*

Client Address: *Sandpits Business Park*
Mottram Road
Hyde
Cheshire
SK14 3AR

Contact(s): *Subcon*

Project *2024SO105 25/04007*

Quotation No.: *Q25-38220* **Date Received:** 02-May-2025

Order No.: P0756809 **Date Instructed:** 02-May-2025

No. of Samples: *6*

Turnaround (Wkdays): 5 **Results Due:** 09-May-2025

Date Approved: 14-May-2025

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 2024SO105 25/04007

Client: Envirolab		**Chemtest Job No.:**				25-14804	25-14804	25-14804	25-14804	25-14804	25-14804
Quotation No.: Q25-38220		**Chemtest Sample ID.:**				1968515	1968516	1968517	1968518	1968519	1968520
Order No.: P0756809		*Client Sample Ref.:*				*25/04007/1 BHM22*	*25/04007/2 TPM05*	*25/04007/3 TPM06*	*25/04007/4 TPM07*	*25/04007/5 TPM11*	*25/04007/6 TPM16*
		Client Sample ID.:				*1*	*1*	*1*	*1*	*1*	*1*
		Sample Type:				*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
		Top Depth (m):				*0.50*	*0.50*	*0.50*	*0.50*	*0.50*	*0.50*
		Bottom Depth (m):				*1.00*	*1.00*	*1.00*	*1.00*	*1.00*	*1.00*
		Date Sampled:				*02-Apr-2025*	*02-Apr-2025*	*02-Apr-2025*	*02-Apr-2025*	*02-Apr-2025*	*02-Apr-2025*
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**						
Moisture		N	2030	%	0.020	[H] 28	[H] 14	[H] 33	[H] 17	[H] 18	[H] 90
Soil Colour		N	2040		N/A	[H] Brown	[H] Brown	[H] Brown	[H] Brown	[H] Brown	[H] Brown
Other Material		N	2040		N/A	[H] Stones and Roots	[H] None	[H] Stones and Roots	[H] Stones and Roots	[H] Stones and Roots	[H] Roots
Soil Texture		N	2040		N/A	[H] Clay	[H] Sand	[H] Clay	[H] Clay	[H] Clay	[H] Clay
Acrylonitrile		N	2760	µg/kg	10	[B] [H] < 10	[B] [H] < 10	[B] [H] < 10	[B] [H] < 10	[B] [H] < 10	[B] [H] < 10

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID	*Clients Sample Ref:*	*Clients Sample ID:*	*Clients Reference:*	*Sampled Date:*	Deviation Code(s):	Containers Received:
1968515	*25/04007/1 BHM22*	*1*		*02-Apr-2025*	B	Amber Glass 60ml
1968516	*25/04007/2 TPM05*	*1*		*02-Apr-2025*	B	Amber Glass 60ml
1968517	*25/04007/3 TPM06*	*1*		*02-Apr-2025*	B	Amber Glass 60ml
1968518	*25/04007/4 TPM07*	*1*		*02-Apr-2025*	B	Amber Glass 60ml
1968519	*25/04007/5 TPM11*	*1*		*02-Apr-2025*	B	Amber Glass 60ml
1968520	*25/04007/6 TPM16*	*1*		*02-Apr-2025*	B	Amber Glass 60ml

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection
Text example	All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at ≤ 30°C prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Certificate of Analysis

Report No.:	**25-03589-1**
Issue No.:	**1**
Date of Issue	**17/07/2025**
Customer Details:	Envirolab Ltd, 7 - 8 Sandpits Business Park, Mottram Road, Hyde, Greater Manchester, SK14 3AR, United Kingdom
Customer Contact:	Maleyka Owen-Agjef
Customer Order No.:	P0756735
Customer Reference:	Not Supplied
Quotation Reference:	Q25-03486 (Issue: 3)
Description:	6 geo samples
Date Received:	22/04/2025
Date Started:	22/04/2025
Date Completed:	17/07/2025
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **Tanaka Gorogodo, Project Coordinator**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

RPS Environmental Management Limited trading as RPS Mountainheath. Registered in England No. 01756175.
13 St Martins Way, Bedford, Bedfordshire, MK42 0LF. T +44 1462 480 400
A member of the RPS Group plc. Terms and conditions apply - copy on request

Results Summary

Report No.: 25-03589-1

Customer Reference: Not Supplied

Customer Order No: P0756735

Customer Sample No	25/04007/1	25/04007/2	25/04007/3	25/04007/4	25/04007/5	25/04007/6
RPS Sample No	92468	92469	92470	92471	92472	92473
Sample Type	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**
Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	02/04/2025	26/03/2025	26/03/2025	26/03/2025	02/04/2025	02/04/2025

Determinand	CAS No	Codes	SOP	RL	Units						
methyl acrylate	96-33-3	N	G132	0.1	mg/kg AR	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)	< 0.1 (TXH)

Deviating Samples

Report No.: 25-03589-1

Customer Reference: Not Supplied

Customer Order No: P0756735

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
92468	25/04007/1		02/04/2025	100 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
92469	25/04007/2		26/03/2025	100 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
92470	25/04007/3		26/03/2025	100 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
92471	25/04007/4		26/03/2025	100 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
92472	25/04007/5		02/04/2025	100 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).
92473	25/04007/6		02/04/2025	100 mL amber glass jar	**Yes**	No sampling time provided. Holding time exceeded (sampling to extraction). Holding time exceeded (sampling to receipt).

Report No.: 25-03589-1

Type	Matrix Code	Description
Food	CEREALPROD	Cereals, grains & products
Food	DRIEDFRUIT	Dried fruits
Food	FRIEDBAKED	Fried or baked food
Food	LEGUME	Legumes
Food	MEAT	Meat
Food	POWDERED	Powdered food
Food	PULSE	Pulses (dried legumes)
Food	VEGETABLES	Vegetables
Gas	TDTUBE	TD Tube
Gas	TENAX	Tenax Tube
Gas	TUBE	Tube
Gas	VAPOUR	Gas
Geological	SED_MAR	Marine Sediment
Geological	SED_RIV	River Sediment
Geological	SLUDG_SOL	Sludge (solid only)
Geological	SOIL	Soil
Liquid	BEVERAGE	Beverage
Liquid	BLOOD	Blood
Liquid	CONDENSATE	Condensate
Liquid	FOAM_LIQ	Liquid foam
Liquid	FORMULATN	Formula
Liquid	LEACHATE	Leachate
Liquid	OIL/GREASE	Oil or grease
Liquid	SLUDG_LIQ	Sludge (liquid only)
Liquid	SOLVENT	Solvent
Liquid	URINE	Urine
Sludge	SLUDG_WHL	Sludge for bulk route
Solid	BADGE	Badge
Solid	BEDDING	Bedding
Solid	BIOTA	Biota (general)
Solid	BIOTA_F	Biota (fish)
Solid	BIOTA_SF	Biota (shellfish)
Solid	CONSTRCTN	Construction materials
Solid	FABRIC	Fabrics & furnishing materials
Solid	FEED	Animal feed
Solid	FERTILISER	Fertiliser
Solid	FILTER	Filter
Solid	FOAM	Solid foam material
Solid	LATEX	Latex/Rubber
Solid	PACKAGING	Packaging material
Solid	PAPER	Paper
Solid	PLANT	Plant (vegetation)
Solid	POWDER	Powder
Solid	SWAB	Swab
Water	BAL	Ballast Water
Water	BIL	Bilge Water
Water	DW	Drinking Water
Water	EFFLUENT	Effluent
Water	GW	Ground Water
Water	INFLUENT	Influent
Water	MINEW	Mine Water
Water	MW	Mineral Water
Water	SALTW	Salt Water
Water	SW	Surface Water
Water	TW	Tap Water
Water	W	Unknown Water

Report No.: 25-03589-1

Key Code	Description
N	Not Accredited Test
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
UF	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
O	Marine Management Organisation (MMO) Validated
SN	Subcontracted to approved laboratory not accredited for the test
SU	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SIN	Subcontracted to internal RPS Group laboratory not accredited for the test
SIU	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
SIM	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
*	Modified standard method
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis
L (in results)	Result is outside normal limits

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 month (if frozen) from the issue date of this report
Waters	2 weeks from the issue date of this report
Other Liquids	1 month from the issue date of this report
Solids / Soils	1 month from the issue date of this report
Sediments	1 month from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

Soil Typing	Description
Type 1	Clay - Brown
Type 2	Clay - Grey/Black
Type 3	Sand
Type 4	Top Soil (Standard)
Type 5	Top Soil (High Peat)
Type 6	Made Ground (>50% Clay)
Type 7	Made Ground (>50% Sand)
Type 8	Made Ground (>50% Top Soil)
Type X	Other

Dev code	Description
D	No sampling date provided.
T	No sampling time provided.
Z	Temperature of samples exceeded in transit/storage.
V	Excessive headspace for volatile determinands.
P	Sample submitted without required preservative(s).
C	Incorrect container.
H	Holding time exceeded (sampling to extraction).
X	Holding time exceeded (sampling to receipt).

Note: Where the following information is included in this certificate, it has usually been supplied by the customer: Customer Sample ID, Sample Location, Sample Depth, Sampling Date and Sampling Time. The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

Final Test Report

Envirolab Job Number:	25/04007
Issue Number:	1
Date:	29-Apr-25

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager:	Damien O'Reilly/IDL Lab
Project Name:	Lough Talt - 2024SO105
Project Ref:	2024SO105
Order No:	PKB21191
Date Samples Received:	16-Apr-25
Date Instructions Received:	16-Apr-25
Date Analysis Completed:	29-Apr-25

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Richard Wong
Client Manager

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04007/1				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				BHM22				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				02/04/2025				
Sample Type				Soil - ES				
Sample Matrix Code				5ABE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**5.26**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.97**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.004	**0.040**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	0.001	**0.010**	0.5	10	70
Copper	A-T-025	N	N	0.006	**0.060**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.002	**0.020**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.059	**0.590**	4	50	200
Chloride	A-T-026	N	N	2	**24**	800	15000	25000
Fluoride	A-T-026	N	N	0.2	**2.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	28.20	**282**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	5.9				
Conductivity (µS/cm)	A-T-037	N	N	24				
Mass Sample (kg)				0.249				
Dry Matter (%)	A-T-044	N	N	70.3				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

envirolab

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04007/2				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM05				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				26/03/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.68**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.53**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**11**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.014	**0.140**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	0.003	**0.030**	0.4	10	40
Lead	A-T-025	N	N	0.001	**0.010**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.012	**0.120**	4	50	200
Chloride	A-T-026	N	N	2	**23**	800	15000	25000
Fluoride	A-T-026	N	N	0.3	**3.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	3	**28**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	46	**460**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.0				
Conductivity (µS/cm)	A-T-037	N	N	92				
Mass Sample (kg)				0.197				
Dry Matter (%)	A-T-044	N	N	88.7				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04007/3				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM06				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				26/03/2025				
Sample Type				Soil - ES				
Sample Matrix Code				5AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.70**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.49**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.014	**0.140**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	0.002	**0.020**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	0.006	**0.060**	0.4	10	40
Lead	A-T-025	N	N	0.004	**0.040**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.034	**0.340**	4	50	200
Chloride	A-T-026	N	N	3	**28**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	2	**17**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	46	**460**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.6				
Conductivity (µS/cm)	A-T-037	N	N	93				
Mass Sample (kg)				0.236				
Dry Matter (%)	A-T-044	N	N	74.2				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04007/4				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM07				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				26/03/2025				
Sample Type				Soil - ES				
Sample Matrix Code				5AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.57**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.67**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1**	**10:1**	**Limit values for compliance leaching test using**		
				mg/l	**mg/kg**	**BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.002	**0.020**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.005	**0.050**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	39	**390**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.9				
Conductivity (µS/cm)	A-T-037	N	N	78				
Mass Sample (kg)				0.219				
Dry Matter (%)	A-T-044	N	N	80.1				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04007/5				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM11				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				02/04/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.72**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**3.62**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**76**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.006	**0.060**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.002	**0.020**	0.5	10	30
Nickel	A-T-025	N	N	0.003	**0.030**	0.4	10	40
Lead	A-T-025	N	N	0.004	**0.040**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.011	**0.110**	4	50	200
Chloride	A-T-026	N	N	3	**32**	800	15000	25000
Fluoride	A-T-026	N	N	0.1	**1.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	43	**430**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.2				
Conductivity (µS/cm)	A-T-037	N	N	87				
Mass Sample (kg)				0.208				
Dry Matter (%)	A-T-044	N	N	84				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04007/6				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM16				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled								
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**5.17**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**45.8**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	IS	**IS**	0.5	2	25
Barium	A-T-025	N	N	IS	**IS**	20	100	300
Cadmium	A-T-025	N	N	IS	**IS**	0.04	1	5
Chromium	A-T-025	N	N	IS	**IS**	0.5	10	70
Copper	A-T-025	N	N	IS	**IS**	2	50	100
Mercury	A-T-025	N	N	IS	**IS**	0.01	0.2	2
Molybdenum	A-T-025	N	N	IS	**IS**	0.5	10	30
Nickel	A-T-025	N	N	IS	**IS**	0.4	10	40
Lead	A-T-025	N	N	IS	**IS**	0.5	10	50
Antimony	A-T-025	N	N	IS	**IS**	0.06	0.7	5
Selenium	A-T-025	N	N	IS	**IS**	0.1	0.5	7
Zinc	A-T-025	N	N	IS	**IS**	4	50	200
Chloride	A-T-026	N	N	IS	**IS**	800	15000	25000
Fluoride	A-T-026	N	N	IS	**IS**	10	150	500
Sulphate as SO_4	A-T-026	N	N	IS	**IS**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	IS	**IS**	4000	60000	100000
Phenol Index	A-T-050	N	N	IS	**IS**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	IS	**IS**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	IS				
Conductivity (µS/cm)	A-T-037	N	N	IS				
Mass Sample (kg)				0.28				
Dry Matter (%)	A-T-044	N	N	62.6				

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Project ID	2024SO105		Irish Water	
Project Name	Lot 1, Lough Talt		11 November 2025	
Schedule ID	2024SO105_total		From Feb - Oct 2025	

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
BH-LG6	2.00	2.50	B	7	06/01/25				1			1	1			EnvLab 25/04172/01
BH-LR1	1.00	1.50	B	4	30/01/25				1			1	1			EnvLab 25/04172/02
BH-WH02A	1.00		D	2	05/02/25				1			1	1			EnvLab 25/04172/03
BH-WH1	1.50	1.90	B	4	04/02/25				1			1	1			EnvLab 25/04172/04
TP-LG1	0.50	1.00	B	1	06/02/25				1			1	1			EnvLab 25/04172/05
TP-LG1	1.50	2.00	B	3	06/02/25				1			1	1			EnvLab 25/04172/06
TP-LG10	0.50	1.00	B	1	18/02/25				1			1	1			EnvLab 25/04172/07
TP-LG2	0.50	1.00	B	1	30/01/25		1		1			1	1			EnvLab 25/04172/08
TP-LG4	0.50	1.00	B	1	30/01/25				1			1	1			EnvLab 25/04172/09
TP-LG4	1.50	2.00	B	3	30/01/25				1			1	1			EnvLab 25/04172/10
TP-LG5	1.40	1.80	D	4	04/02/25				1			1	1			EnvLab 25/04172/11
TP-LG6	0.40	0.80	B	1	06/02/25				1			1	1			EnvLab 25/04172/12
TP-LG7	0.50	1.00	D	2	30/01/25				1			1	1			EnvLab 25/04172/13
TP-LG8	0.40	0.80	B	1	06/02/25				1			1	1			EnvLab 25/04172/14
TP-LG9	0.50	0.90	B	1	14/02/25		1									EnvLab 25/04172/15
TP-LG9	1.10	1.40	B	3	14/02/25		1		1			1	1			EnvLab 25/04172/16
TP-LR1	0.50	1.00	B	1	07/02/25				1			1	1			EnvLab 25/04172/17
TP-LR2	0.50	1.00	B	1	10/02/25				1			1	1			EnvLab 25/04172/18
TP-LR2	2.00	2.50	B	3	10/02/25				1			1	1			EnvLab 25/04172/19
TP-LR4	1.50	2.00	B	3	07/02/25				1			1	1			EnvLab 25/04172/20
TP-LR5	1.50	1.80	B	3	10/02/25		1		1			1	1			EnvLab 25/04172/21
TP-LR5	3.50	4.00	B	5	10/02/25		1		1			1	1			EnvLab 25/04172/22
TP-LR6	0.50	1.00	B	1	07/02/25				1			1	1			EnvLab 25/04172/23
TP-M72	0.50	1.00	D	2	07/03/25				1			1	1			EnvLab 25/04172/24
TP-M73	0.50	1.00	D	2	07/03/25				1			1	1			EnvLab 25/04172/25
TP-M74	1.50	2.00	D	4	07/03/25				1			1	1			EnvLab 25/04172/26
TP-M75	2.00	2.50	D	4	03/03/25				1			1	1			EnvLab 25/04172/27
TP-M77	1.50	2.00	D	4	03/03/25				1			1	1			EnvLab 25/04172/28
TP-M01	1.50	2.00	B	3	13/02/25				1			1	1			EnvLab 25/04172/29
TP-R01	2.00	2.50	D	4	25/02/25				1			1	1			EnvLab 25/04172/30
TP-R02	1.50	2.00	D	4	24/02/25				1			1	1			EnvLab 25/04172/31
TP-R04	0.50	1.00	D	2	24/02/25				1			1	1			EnvLab 25/04172/32
TP-T03	2.00	2.50	D	4	26/02/25				1			1	1			EnvLab 25/04172/33
TP-T03	4.00	4.50	D	6	26/02/25				1			1	1			EnvLab 25/04172/34
TP-WH01	1.50	2.00	B	3	21/02/25				1			1	1			EnvLab 25/04172/35
BH-LG2	1.00	1.50	B	4	07/01/25				1			1	1			EnvLab 25/04172/36
BH-LG5	1.20	1.80	B	4	02/01/25				1			1	1			EnvLab 25/04172/37
BH-LG3	1.20	1.70	B	4	29/01/25				1			1	1			EnvLab 25/04172/38
BH-LG4	1.00	1.50	B	4	02/01/25				1			1	1			EnvLab 25/04172/39

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/04172
Issue Number: 1 **Date:** 01 May, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: Not specified
Order No: PKB21191
Date Samples Received: 22/04/25
Date Instructions Received: 23/04/25
Date Analysis Completed: 01/05/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/04172

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/04172/1	25/04172/2	25/04172/3	25/04172/4	25/04172/5	25/04172/6	25/04172/7	Units	Limit of Detection	Method ref
Client Sample No	7	4	2	4	1	3	1			
Client Sample ID	BH-LG6	BH-LR1	BH-WH02A	BH-WH1	TP-LG1	TP-LG1	TP-LG10			
Depth to Top	2.00	1.00	1.00	1.50	0.50	1.50	0.50			
Depth To Bottom	2.50	1.50		1.90	1.00	2.00	1.00			
Date Sampled	01-Apr-25	04-Apr-25	07-Apr-25	04-Apr-25	01-Apr-25	01-Apr-25	07-Apr-25			
Sample Type	SOIL - B	SOIL - B	SOIL - D	SOIL - B	SOIL - B	SOIL - B	SOIL - B			
Sample Matrix Code	6A	6AE	6A	5A	6A	6A	4A			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	7.64	7.79	8.36	8.45	7.29	4.84	6.52	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	<10	14	23	47	13	33	28	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	440	400	850	470	270	<400	430	mg/kg	200	A-T-028s

Envirolab Job Number: 25/04172

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/04172/8	25/04172/9	25/04172/10	25/04172/11	25/04172/12	25/04172/13	25/04172/14	Units	Limit of Detection	Method ref
Client Sample No	1	1	3	4	1	2	1			
Client Sample ID	TP-LG2	TP-LG4	TP-LG4	TP-LG5	TP-LG6	TP-LG7	TP-LG8			
Depth to Top	0.50	0.50	1.50	1.40	0.40	0.50	0.40			
Depth To Bottom	1.00	1.00	2.00	1.80	0.80	1.00	0.80			
Date Sampled	01-Apr-25	01-Apr-25	01-Apr-25	02-Apr-25	02-Apr-25	02-Apr-25	02-Apr-25			
Sample Type	SOIL - B	SOIL - B	SOIL - B	SOIL - D	SOIL - B	SOIL - D	SOIL - B			
Sample Matrix Code	6AE	6AE	6A	6A	6A	6A	6AE			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	4.71	5.60	6.72	6.43	5.99	7.78	5.57	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	24	17	16	60	<10	12	<10	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	<200	490	<1000	420	260	700	310	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	1.54	-	-	-	-	-	-	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/04172

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/04172/15	25/04172/16	25/04172/17	25/04172/18	25/04172/19	25/04172/20	25/04172/21	Units	Limit of Detection	Method ref
Client Sample No	1	3	1	1	3	3	3			
Client Sample ID	TP-LG9	TP-LG9	TP-LR1	TP-LR2	TP-LR2	TP-LR4	TP-LR5			
Depth to Top	0.50	1.10	0.50	0.50	2.00	1.50	1.50			
Depth To Bottom	0.90	1.40	1.00	1.00	2.50	2.00	1.80			
Date Sampled	03-Apr-25	03-Apr-25	02-Apr-25	03-Apr-25	03-Apr-25	03-Apr-25	03-Apr-25			
Sample Type	SOIL - B	SOIL - B	SOIL - B	SOIL - B	SOIL - B	SOIL - B	SOIL - B			
Sample Matrix Code	6AE	6A	6A	6A	6A	6A	6A			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	-	7.81	7.72	7.74	8.17	7.36	7.73	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	-	11	<10	15	<10	<10	<10	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	-	480	<400	<1000	560	440	<400	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	2.15	2.35	-	-	-	-	1.24	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/04172

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/04172/22	25/04172/23	25/04172/24	25/04172/25	25/04172/26	25/04172/27	25/04172/28	Units	Limit of Detection	Method ref
Client Sample No	5	1	2	2	4	4	4			
Client Sample ID	TP-LR5	TP-LR6	TP-M72	TP-M73	TP-M74	TP-M75	TP-M77			
Depth to Top	3.50	0.50	0.50	0.50	1.50	2.00	1.50			
Depth To Bottom	4.00	1.00	1.00	1.00	2.00	2.50	2.00			
Date Sampled	03-Apr-25	03-Apr-25	14-Apr-25	14-Apr-25	14-Apr-25	07-Apr-25	07-Apr-25			
Sample Type	SOIL - B	SOIL - B	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D			
Sample Matrix Code	6A	6A	6A	6A	6A	6A	6A			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	7.57	7.60	7.10	7.24	5.51	5.31	5.85	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	11	37	38	10	<10	<10	16	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	<400	<400	350	<200	<200	<200	<200	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	1.45	-	-	-	-	-	-	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/04172

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: Not specified

Lab Sample ID	25/04172/29	25/04172/30	25/04172/31	25/04172/32	25/04172/33	25/04172/34	25/04172/35	Units	Limit of Detection	Method ref
Client Sample No	3	4	4	2	4	6	3			
Client Sample ID	TP-MO1	TP-R01	TP-R02	TP-R04	TP-T03	TP-T03	TP-WH01			
Depth to Top	1.50	2.00	1.50	0.50	2.00	4.00	1.50			
Depth To Bottom	2.00	2.50	2.00	1.00	2.50	4.50	2.00			
Date Sampled	07-Apr-25	05-Apr-25	08-Apr-25	08-Apr-25	08-Apr-25	08-Apr-25	07-Apr-25			
Sample Type	SOIL - B	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - B			
Sample Matrix Code	6A	6A	6A	6A	6A	6A	6A			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	7.86	6.10	5.29	4.73	7.83	7.34	7.91	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D$$^{M\#}$	<10	<10	<10	<10	<10	<10	12	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D$$^{M\#}$	410	<200	<200	<200	<200	<400	580	mg/kg	200	A-T-028s

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.
Quantification: Generally a 2 stage process including visual identification, hand picking and weighing, and fibre counting. Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres). "TRACE" will be reported as a quantification result.
PLEASE INFORM THE LABORATORY IF YOU WOULD LIKE THE STAGE 3 SEDIMENTATION PROCESS CARRIED OUT. Note this will be subcontracted.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/04172

Date Received: 23/04/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 16.9-17.5

Clients Project No:

Lab Sample ID	25/04172/8
Client Sample No	1
Client Sample ID/Depth	TP-LG2 0.50-1.00m
Date Sampled	01/04/25
Deviation Code	
F	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/04172/8
Client Sample No	1
Client Sample ID/Depth	TP-LG2 0.50-1.00m
Date Sampled	01/04/25
Organic Matter	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/04172/1	25/04172/2	25/04172/3	25/04172/4	25/04172/5	25/04172/6	25/04172/7	25/04172/8	25/04172/9	25/04172/10	25/04172/11	25/04172/12
Client Sample No	7	4	2	4	1	3	1	1	1	3	4	1
Client Sample ID/Depth	BH-LG6 2.00-2.50m	BH-LR1 1.00-1.50m	BH-WH02A 1.00m	BH-WH1 1.50-1.90m	TP-LG1 0.50-1.00m	TP-LG1 1.50-2.00m	TP-LG10 0.50-1.00m	TP-LG2 0.50-1.00m	TP-LG4 0.50-1.00m	TP-LG4 1.50-2.00m	TP-LG5 1.40-1.80m	TP-LG6 0.40-0.80m
Date Sampled	01/04/25	04/04/25	07/04/25	04/04/25	01/04/25	01/04/25	07/04/25	01/04/25	01/04/25	01/04/25	02/04/25	02/04/25
A-T-026s	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-028s	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-031s	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025
A-T-032s								01/05/2025				
A-T-044	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025

Lab Sample ID	25/04172/13	25/04172/14	25/04172/15	25/04172/16	25/04172/17	25/04172/18	25/04172/19	25/04172/20	25/04172/21	25/04172/22	25/04172/23	25/04172/24
Client Sample No	2	1	1	3	1	1	3	3	3	5	1	2
Client Sample ID/Depth	TP-LG7 0.50-1.00m	TP-LG8 0.40-0.80m	TP-LG9 0.50-0.90m	TP-LG9 1.10-1.40m	TP-LR1 0.50-1.00m	TP-LR2 0.50-1.00m	TP-LR2 2.00-2.50m	TP-LR4 1.50-2.00m	TP-LR5 1.50-1.80m	TP-LR5 3.50-4.00m	TP-LR6 0.50-1.00m	TP-M72 0.50-1.00m
Date Sampled	02/04/25	02/04/25	03/04/25	03/04/25	02/04/25	03/04/25	03/04/25	03/04/25	03/04/25	03/04/25	03/04/25	14/04/25
A-T-026s	29/04/2025	29/04/2025		29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-028s	29/04/2025	29/04/2025		29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-031s	01/05/2025	01/05/2025		01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025
A-T-032s			01/05/2025	01/05/2025					01/05/2025	01/05/2025		
A-T-044	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025

Lab Sample ID	25/04172/25	25/04172/26	25/04172/27	25/04172/28	25/04172/29	25/04172/30	25/04172/31	25/04172/32	25/04172/33	25/04172/34	25/04172/35
Client Sample No	2	4	4	4	3	4	4	2	4	6	3
Client Sample ID/Depth	TP-M73 0.50-1.00m	TP-M74 1.50-2.00m	TP-M75 2.00-2.50m	TP-M77 1.50-2.00m	TP-MO1 1.50-2.00m	TP-R01 2.00-2.50m	TP-R02 1.50-2.00m	TP-R04 0.50-1.00m	TP-T03 2.00-2.50m	TP-T03 4.00-4.50m	TP-WH01 1.50-2.00m
Date Sampled	14/04/25	14/04/25	07/04/25	07/04/25	07/04/25	05/04/25	08/04/25	08/04/25	08/04/25	08/04/25	07/04/25
A-T-026s	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-028s	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025	29/04/2025
A-T-031s	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025	01/05/2025
A-T-032s											
A-T-044	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025	30/04/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Irish Water		
11 November 2025		
From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
ST-TEL-09	0.50	1.00	ES		23/04/25										1	EnvLab 25/04883/1
ST-TEL-13	0.50	1.00	ES		01/05/25										1	EnvLab 25/04883/2
ST-WC-07	0.50	1.00	ES		24/04/25										1	EnvLab 25/04883/3
ST-WM-45	0.80	1.00	ES		24/04/25										1	EnvLab 25/04883/4
TP-M21	0.50	1.00	ES	ES	25/04/25										1	EnvLab 25/04883/5
TP-M22	0.50	1.00	ES	ES	25/04/25										1	EnvLab 25/04883/6

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/04883
Issue Number: 1 **Date:** 02 July, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab/Ronan Killeen
Project Name: Lough Talt - 2024SO105
Project Ref: 2024SO105
Order No: PKB21191
Date Samples Received: 12/05/25
Date Instructions Received: 13/05/25
Date Analysis Completed: 02/07/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/04883

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04883/1	25/04883/2	25/04883/3	25/04883/4	25/04883/5	25/04883/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	ST-TEL-09	ST-TEL-13	ST-WC-07	ST-WM-45	TP-M21	TP-M22				
Depth to Top	0.50	0.50	0.50	0.80	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	23-Apr-25	01-May-25	24-Apr-25		25-Apr-25	25-Apr-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	4AE	5AE	5AE	4A				
% Moisture at <40C$_A$	18.9	16.0	8.8	12.7	19.5	6.2		% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	7.9		% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	7.53	7.60	7.75	7.83	7.70	7.94		pH	0.01	A-T-031s
Sulphate (acid soluble)$_D$$^{M\#}$	390	580	560	990	960	300		mg/kg	200	A-T-028s
Cyanide (total)$_A$$^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Sulphide$_A$	<5	<5	<5	<5	<5	<25		mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$$^{M\#}$	<5	<5	21	14	54	6		mg/kg	5	A-T-029s
Total Organic Carbon$_D$$^{M\#}$	4.27	2.38	1.30	2.14	3.24	0.69		% w/w	0.08	A-T-032s
Antimony$_D$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-024s
Arsenic$_D$$^{M\#}$	3	3	3	3	3	<1		mg/kg	1	A-T-024s
Barium$_D$$^{\#}$	23	35	21	24	16	13		mg/kg	3	A-T-024s
Boron (water soluble)$_D$$^{M\#}$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		mg/kg	1	A-T-027s
Cadmium$_D$$^{M\#}$	0.5	0.6	<0.5	<0.5	0.7	<0.5		mg/kg	1	A-T-024s
Copper$_D$$^{M\#}$	25	14	11	12	9	8		mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	8	11	9	12	7	8		mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Chromium (trivalent)	8	11	9	12	7	8		mg/kg	1	Calc
Lead$_D$$^{M\#}$	23	10	9	21	15	5		mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Molybdenum$_D$$^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Nickel$_D$$^{M\#}$	15	22	14	18	13	11		mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	47	70	32	37	31	29		mg/kg	1	A-T-024s
Mineral Oil (>C10-C40)$_A$	47	<10	<10	60	67	<10		mg/kg	10	A-T-007s
Methyl Acrylate$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		mg/kg	0.1	Subcon RPS MH
Acrylonitrile$_A$	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00		µg/kg	10	Subcon Chemtest

Envirolab Job Number: 25/04883

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04883/1	25/04883/2	25/04883/3	25/04883/4	25/04883/5	25/04883/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	ST-TEL-09	ST-TEL-13	ST-WC-07	ST-WM-45	TP-M21	TP-M22				
Depth to Top	0.50	0.50	0.50	0.80	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	23-Apr-25	01-May-25	24-Apr-25		25-Apr-25	25-Apr-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	4AE	5AE	5AE	4A				
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil$_D^{\#}$	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos Matrix (visual)$_D$	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope)$_D$	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_D$	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 25/04883

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04883/1	25/04883/2	25/04883/3	25/04883/4	25/04883/5	25/04883/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	ST-TEL-09	ST-TEL-13	ST-WC-07	ST-WM-45	TP-M21	TP-M22				
Depth to Top	0.50	0.50	0.50	0.80	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	23-Apr-25	01-May-25	24-Apr-25		25-Apr-25	25-Apr-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	4AE	5AE	5AE	4A				
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	<0.01	<0.01	<0.01	0.05	0.04	<0.01		mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	0.01	0.02	<0.01	0.02	0.24	<0.01		mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02	0.02	<0.02	0.14	0.24	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	0.16	0.08	<0.04	0.63	2.31	<0.04		mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	0.20	0.08	0.04	0.64	3.38	<0.04		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	0.22	0.11	0.05	0.71	3.61	<0.05		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.22	0.08	<0.05	0.54	3.40	<0.05		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	<0.07	<0.07	0.30	1.32	<0.07		mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	0.17	0.11	<0.06	0.61	2.72	<0.06		mg/kg	0.06	A-T-019s
Coronene$_A$	0.09	0.04	0.02	0.16	1.08	<0.01		mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	<0.04	<0.04	<0.04	0.09	0.53	<0.04		mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	0.21	0.17	<0.08	1.09	3.95	<0.08		mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	<0.01	<0.01	0.03	0.04	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	0.21	0.07	0.04	0.55	3.06	<0.03		mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.03	0.05	<0.03	0.33	0.56	<0.03		mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	0.21	0.20	<0.07	1.01	4.12	<0.07		mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	1.70	1.03	0.15	6.90	30.6	<0.08		mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/04883

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04883/1	25/04883/2	25/04883/3	25/04883/4	25/04883/5	25/04883/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	ST-TEL-09	ST-TEL-13	ST-WC-07	ST-WM-45	TP-M21	TP-M22				
Depth to Top	0.50	0.50	0.50	0.80	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	23-Apr-25	01-May-25	24-Apr-25		25-Apr-25	25-Apr-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	4AE	5AE	5AE	4A				
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7$_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.003	A-T-004s

Envirolab Job Number: 25/04883

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04883/1	25/04883/2	25/04883/3	25/04883/4	25/04883/5	25/04883/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	ST-TEL-09	ST-TEL-13	ST-WC-07	ST-WM-45	TP-M21	TP-M22				
Depth to Top	0.50	0.50	0.50	0.80	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	23-Apr-25	01-May-25	24-Apr-25		25-Apr-25	25-Apr-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	4AE	5AE	5AE	4A				
Envirolab WAC A (Leachate only) 10:1										
Mass Sample (1 stage WAC)	0.214	0.198	0.189	0.205	0.225	0.183		Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	81.8	88.4	92.6	85.4	77.7	95.8		% w/w	0.1	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<10	<1		mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1	<10	<1		mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<1	1	<10	<1		mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	4	1	1	3	<10	<1		mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	28	23	9	29	57	2		mg/kg	1	A-T-055s
Total Aliphatics$_A$	44	38	14	49	101	2		mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	1	<1	<1	<10	<1		mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	<1	<1	<10	<1		mg/kg	1	A-T-055s
Aro >C12-C16$_A$	1	1	1	2	15	<1		mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	5	2	2	8	67	<1		mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	14	17	10	92	467	<1		mg/kg	1	A-T-055s
Aro >C35-C40$_A$	10	11	4	19	43	<1		mg/kg	1	A-T-055s
Total Aromatics$_A$	30	32	18	121	593	<1		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	74	70	32	171	693	2		mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C35-C40$_A$	12	14	4	16	43	<1		mg/kg	1	A-T-055s

Envirolab Job Number: 25/04883

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04883/1	25/04883/2	25/04883/3	25/04883/4	25/04883/5	25/04883/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	ST-TEL-09	ST-TEL-13	ST-WC-07	ST-WM-45	TP-M21	TP-M22				
Depth to Top	0.50	0.50	0.50	0.80	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	23-Apr-25	01-May-25	24-Apr-25		25-Apr-25	25-Apr-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	4AE	5AE	5AE	4A				
Ammoniacal nitrogen as N (10:1 leachable)$_A$	0.10	<0.05	<0.05	<0.05	<0.05	<0.05		mg/l	0.05	A-T-033w

Envirolab Job Number: 25/04883

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04883/1	25/04883/2	25/04883/3	25/04883/4	25/04883/5	25/04883/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	ST-TEL-09	ST-TEL-13	ST-WC-07	ST-WM-45	TP-M21	TP-M22				
Depth to Top	0.50	0.50	0.50	0.80	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	23-Apr-25	01-May-25	24-Apr-25		25-Apr-25	25-Apr-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	4AE	5AE	5AE	4A				
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*	*	*	*	*	*				A-T-001
pH (10:1 leachable)$_A$	8.05	8.03	8.25	8.07	8.60	8.45		pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	114	104	121	113	81	84		µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	57	52	60	56	40	42		mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	2.58	<1.00	5.10	4.66	4.45	2.77		mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	0.76	0.44	0.90	0.56	0.37	0.53		mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	<1.00	2.76	10.31	15.20	<1.00	1.69		mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	<0.001	<0.001	0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.010	0.014	0.014	0.008	0.005	0.005		mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	0.005	<0.004	<0.004	<0.004	<0.004	<0.004		mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	0.003	<0.001		mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	0.004	0.001	0.003	0.002	0.001	<0.001		mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	0.002	0.002	0.004	0.004	0.001	<0.001		mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	<0.002	<0.002	0.002	<0.002	<0.002	<0.002		mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.017	0.020	0.016	0.009	0.014	0.008		mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	<0.01	<0.01	0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.10	0.14	0.14	0.08	0.05	0.05		mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	26	<10	51	47	45	28		mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	0.03	<0.01		mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	0.05	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	Calc-no stones
DOC (10:1 cumulative mg/kg)	<200	<200	<200	<200	<200	<200		mg/kg	200	Calc-no stones

Envirolab Job Number: 25/04883

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/04883/1	25/04883/2	25/04883/3	25/04883/4	25/04883/5	25/04883/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	ST-TEL-09	ST-TEL-13	ST-WC-07	ST-WM-45	TP-M21	TP-M22				
Depth to Top	0.50	0.50	0.50	0.80	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	1.00	1.00	1.00				
Date Sampled	23-Apr-25	01-May-25	24-Apr-25		25-Apr-25	25-Apr-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	4AE	5AE	5AE	4A				
Fluoride (10:1 cumulative mg/kg)	8	4	9	6	4	5		mg/kg	1	Calc-no stones
Lead (10:1 cumulative mg/kg)	0.04	0.01	0.03	0.02	0.01	<0.01		mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	0.02	0.02	0.04	0.04	0.01	<0.01		mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	<0.02	<0.02	0.02	<0.02	<0.02	<0.02		mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	<10	28	103	152	<10	17		mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	570	520	600	560	400	420		mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.17	0.20	0.16	0.09	0.14	0.08		mg/kg	0.02	Calc-no stones

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:

All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:

For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:

EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:

Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/04883

Date Received: 13/05/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 11.2

Clients Project No: 2024SO105

Lab Sample ID	25/04883/1	25/04883/2	25/04883/3	25/04883/4	25/04883/5	25/04883/6
Client Sample No	1	1	1	1	1	1
Client Sample ID/Depth	ST-TEL-09 0.50-1.00m	ST-TEL-13 0.50-1.00m	ST-WC-07 0.50-1.00m	ST-WM-45 0.80-1.00m	TP-M21 0.50-1.00m	TP-M22 0.50-1.00m
Date Sampled	23/04/25	01/05/25	24/04/25		25/04/25	25/04/25
Deviation Code						
E (no date)	✓	✓	✓	✓		
F	✓		✓		✓	✓

Key

E (no date) *No sampling date provided (all results affected if not provided)*

F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/04883/1	25/04883/3	25/04883/5	25/04883/6
Client Sample No	1	1	1	1
Client Sample ID/Depth	ST-TEL-09 0.50-1.00m	ST-WC-07 0.50-1.00m	TP-M21 0.50-1.00m	TP-M22 0.50-1.00m
Date Sampled	23/04/25	24/04/25	25/04/25	25/04/25
PAH-16MS plus Coronene	✓	✓	✓	✓
VPHCWG	✓	✓	✓	✓
Cyanide (total)	✓	✓	✓	✓

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples 5 ± 3°C), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/04883/1	25/04883/2	25/04883/3	25/04883/4	25/04883/5	25/04883/6
Client Sample No	1	1	1	1	1	1
Client Sample ID/Depth	ST-TEL-09 0.50-1.00m	ST-TEL-13 0.50-1.00m	ST-WC-07 0.50-1.00m	ST-WM-45 0.80-1.00m	TP-M21 0.50-1.00m	TP-M22 0.50-1.00m
Date Sampled	23/04/25	01/05/25	24/04/25		25/04/25	25/04/25
A-T-004s	16/05/2025	16/05/2025	16/05/2025	16/05/2025	16/05/2025	16/05/2025
A-T-007s	19/05/2025	19/05/2025	19/05/2025	19/05/2025	19/05/2025	19/05/2025
A-T-019s	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025
A-T-022s	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025
A-T-024s	19/05/2025	19/05/2025	19/05/2025	19/05/2025	19/05/2025	19/05/2025
A-T-025w	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025
A-T-026w	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025
A-T-026w (F)	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025
A-T-027s	19/05/2025	19/05/2025	19/05/2025	19/05/2025	19/05/2025	19/05/2025
A-T-028s	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025
A-T-029s	19/05/2025	19/05/2025	19/05/2025	19/05/2025	19/05/2025	19/05/2025
A-T-031s	21/05/2025	21/05/2025	21/05/2025	21/05/2025	21/05/2025	21/05/2025
A-T-031w	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025
A-T-032s	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025
A-T-032w	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025
A-T-033w	16/05/2025	16/05/2025	16/05/2025	16/05/2025	16/05/2025	16/05/2025
A-T-037w	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025
A-T-040s	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025
A-T-042sTCN	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025
A-T-043-s	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025
A-T-044	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025
A-T-045	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025	15/05/2025
A-T-050s	16/05/2025	16/05/2025	16/05/2025	16/05/2025	16/05/2025	16/05/2025
A-T-050w	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025
A-T-055s	16/05/2025	16/05/2025	16/05/2025	16/05/2025	16/05/2025	16/05/2025
Calc	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025
Calc-As Recd	16/05/2025	16/05/2025	16/05/2025	16/05/2025	16/05/2025	16/05/2025
Calc-no stones	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025
Probe (w)	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025	28/05/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

Final Test Report

Envirolab Job Number:	25/04883
Issue Number:	1
Date:	2-Jul-25

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager:	Damien O'Reilly/IDL Lab/Ronan Killeen
Project Name:	Lough Talt - 2024SO105
Project Ref:	2024SO105
Order No:	PKB21191
Date Samples Received:	12-May-25
Date Instructions Received:	13-May-25
Date Analysis Completed:	2-Jul-25

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:

Richard Wong
Client Manager

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04883/1				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				ST-TEL-09				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				23/04/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.53**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**4.27**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**47**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1** mg/l	**10:1** mg/kg	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.010	**0.100**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	0.005	**0.050**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.002	**0.020**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.004	**0.040**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.017	**0.170**	4	50	200
Chloride	A-T-026	N	N	3	**26**	800	15000	25000
Fluoride	A-T-026	N	N	0.8	**8.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	57	**570**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.1				
Conductivity (µS/cm)	A-T-037	N	N	114				
Mass Sample (kg)				0.214				
Dry Matter (%)	A-T-044	N	N	81.8				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04883/2				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				ST-TEL-13				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				01/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.60**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.38**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.014	**0.140**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.002	**0.020**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.001	**0.010**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.020	**0.200**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	3	**28**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	52	**520**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.0				
Conductivity (µS/cm)	A-T-037	N	N	104				
Mass Sample (kg)				0.198				
Dry Matter (%)	A-T-044	N	N	88.4				

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Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04883/3				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				ST-WC-07				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				24/04/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.75**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.3**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	0.001	**0.010**	0.5	2	25
Barium	A-T-025	N	N	0.014	**0.140**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.004	**0.040**	0.5	10	30
Nickel	A-T-025	N	N	0.002	**0.020**	0.4	10	40
Lead	A-T-025	N	N	0.003	**0.030**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.016	**0.160**	4	50	200
Chloride	A-T-026	N	N	5	**51**	800	15000	25000
Fluoride	A-T-026	N	N	0.9	**9.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	10	**103**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	60	**600**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.3				
Conductivity (µS/cm)	A-T-037	N	N	121				
Mass Sample (kg)				0.189				
Dry Matter (%)	A-T-044	N	N	92.6				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04883/4				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				ST-WM-45				
Depth to Top				0.8				
Depth to Bottom				1.00				
Date Sampled								
Sample Type				Soil - ES				
Sample Matrix Code				5AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.83**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.14**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**60**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.008	**0.080**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.004	**0.040**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.002	**0.020**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.009	**0.090**	4	50	200
Chloride	A-T-026	N	N	5	**47**	800	15000	25000
Fluoride	A-T-026	N	N	0.6	**6.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	15	**152**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	56	**560**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.1				
Conductivity (µS/cm)	A-T-037	N	N	113				
Mass Sample (kg)				0.205				
Dry Matter (%)	A-T-044	N	N	85.4				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04883/5				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TP-M21				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				25/04/2025				
Sample Type				Soil - ES				
Sample Matrix Code				5AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.70**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**3.24**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**67**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.005	**0.050**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	0.003	**0.030**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.001	**0.010**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.001	**0.010**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.014	**0.140**	4	50	200
Chloride	A-T-026	N	N	4	**45**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	40	**400**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.6				
Conductivity (µS/cm)	A-T-037	N	N	81				
Mass Sample (kg)				0.225				
Dry Matter (%)	A-T-044	N	N	77.7				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/04883/6				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TP-M22				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				25/04/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.94**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.69**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.005	**0.050**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.008	**0.080**	4	50	200
Chloride	A-T-026	N	N	3	**28**	800	15000	25000
Fluoride	A-T-026	N	N	0.5	**5.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	2	**17**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	42	**420**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.5				
Conductivity (µS/cm)	A-T-037	N	N	84				
Mass Sample (kg)				0.183				
Dry Matter (%)	A-T-044	N	N	95.8				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 25-15949-1

Initial Date of Issue: 21-May-2025

Re-Issue Details:

Client *Envirolab*

Client Address: *Sandpits Business Park*
Mottram Road
Hyde
Cheshire
SK14 3AR

Contact(s): *Subcon*

Project *25/04883 2024SO105*

Quotation No.: *Q25-38220* **Date Received:** 14-May-2025

Order No.: P0756886 **Date Instructed:** 14-May-2025

No. of Samples: *6*

Turnaround (Wkdays): 5 **Results Due:** 20-May-2025

Date Approved: 21-May-2025

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/04883 2024SO105

Client: Envirolab			**Chemtest Job No.:**			25-15949	25-15949	25-15949	25-15949	25-15949	25-15949
Quotation No.: Q25-38220			**Chemtest Sample ID.:**			1972639	1972640	1972641	1972642	1972643	1972644
Order No.: P0756886			*Client Sample Ref.:*			*25/04883/1 ST-TEL-09*	*25/04883/2 ST-TEL-13*	*25/04883/3 ST-WC-07*	*25/04883/4 ST-WM-45*	*25/04883/5 TP-M21*	*25/04883/6 TP-M22*
			Sample Type:			*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
			Top Depth (m):			*0.50*	*0.50*	*0.50*	*0.80*	*0.50*	*0.50*
			Bottom Depth (m):			*1.00*	*1.00*	*1.00*	*1.00*	*1.00*	*1.00*
			Date Sampled:							*25-Apr-2015*	*25-Apr-2025*
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**						
Moisture		N	2030	%	0.020	14	10	7.5	8.8	12	5.9
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones, and Roots	Stones, Roots and	Stones and	Stones, Roots and	Stones, Roots and	Stones, Roots and
Soil Texture		N	2040		N/A	Loam	Clay	Loam	Clay	Clay	Sand
Acrylonitrile		N	2760	µg/kg	10	[A] < 10	[A] < 10	[A] < 10	[A] < 10	[B] < 10	[B] < 10

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID	*Clients Sample Ref:*	*Clients Sample ID:*	*Clients Reference:*	*Sampled Date:*	Deviation Code(s):	Containers Received:
1972639	*25/04883/1 ST-TEL-09*				A	Amber Glass 250ml
1972640	*25/04883/2 ST-TEL-13*				A	Amber Glass 250ml
1972641	*25/04883/3 ST-WC-07*				A	Amber Glass 250ml
1972642	*25/04883/4 ST-WM-45*				A	Amber Glass 250ml
1972643	*25/04883/5 TP-M21*			*25-Apr-2015*	B	Amber Glass 250ml
1972644	*25/04883/6 TP-M22*			*25-Apr-2025*	B	Amber Glass 250ml

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection
Text example	All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at ≤ 30°C prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

Certificate of Analysis

Report No.:	**25-04383-1**
Issue No.:	**1**
Date of Issue	**01/07/2025**
Customer Details:	Envirolab Ltd, 7 - 8 Sandpits Business Park, Mottram Road, Hyde, Greater Manchester, SK14 3AR, United Kingdom
Customer Contact:	Richard Wong
Customer Order No.:	PO756887
Customer Reference:	Not Supplied
Quotation Reference:	Q25-03486 (Issue: 3)
Description:	6 geo samples
Date Received:	14/05/2025
Date Started:	16/05/2025
Date Completed:	01/07/2025
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **Marco Lattughi, Operational Director**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

RPS Environmental Management Limited trading as RPS Mountainheath. Registered in England No. 01756175.
13 St Martins Way, Bedford, Bedfordshire, MK42 0LF. T +44 1462 480 400
A member of the RPS Group plc. Terms and conditions apply - copy on request

Results Summary

Report No.: 25-04383-1

Customer Reference: Not Supplied

Customer Order No: PO756887

Customer Sample No	25/04883/1	25/04883/2	25/04883/3	25/04883/4	25/04883/5	25/04883/6
RPS Sample No	95608	95609	95610	95611	95612	95613
Sample Type	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**
Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL

Determinand	CAS No	Codes	SOP	RL	Units						
methyl acrylate	96-33-3	N	G132	0.1	mg/kg AR	< 0.1 (D)	< 0.1 (D)	< 0.1 (D)	< 0.1 (D)	< 0.1 (D)	< 0.1 (D)

Deviating Samples

Report No.: 25-04383-1

Customer Reference: Not Supplied

Customer Order No: PO756887

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
95608	25/04883/1		Not Provided	100 mL amber glass jar	**Yes**	No sampling date provided.
95609	25/04883/2		Not Provided	100 mL amber glass jar	**Yes**	No sampling date provided.
95610	25/04883/3		Not Provided	100 mL amber glass jar	**Yes**	No sampling date provided.
95611	25/04883/4		Not Provided	100 mL amber glass jar	**Yes**	No sampling date provided.
95612	25/04883/5		Not Provided	100 mL amber glass jar	**Yes**	No sampling date provided.
95613	25/04883/6		Not Provided	100 mL amber glass jar	**Yes**	No sampling date provided.

Report No.: 25-04383-1

Type	Matrix Code	Description
Food	CEREALPROD	Cereals, grains & products
Food	DRIEDFRUIT	Dried fruits
Food	FRIEDBAKED	Fried or baked food
Food	LEGUME	Legumes
Food	MEAT	Meat
Food	POWDERED	Powdered food
Food	PULSE	Pulses (dried legumes)
Food	VEGETABLES	Vegetables
Gas	TDTUBE	TD Tube
Gas	TENAX	Tenax Tube
Gas	TUBE	Tube
Gas	VAPOUR	Gas
Geological	SED_MAR	Marine Sediment
Geological	SED_RIV	River Sediment
Geological	SLUDG_SOL	Sludge (solid only)
Geological	SOIL	Soil
Liquid	BEVERAGE	Beverage
Liquid	BLOOD	Blood
Liquid	CONDENSATE	Condensate
Liquid	FOAM_LIQ	Liquid foam
Liquid	FORMULATN	Formula
Liquid	LEACHATE	Leachate
Liquid	OIL/GREASE	Oil or grease
Liquid	SLUDG_LIQ	Sludge (liquid only)
Liquid	SOLVENT	Solvent
Liquid	URINE	Urine
Sludge	SLUDG_WHL	Sludge for bulk route
Solid	BADGE	Badge
Solid	BEDDING	Bedding
Solid	BIOTA	Biota (general)
Solid	BIOTA_F	Biota (fish)
Solid	BIOTA_SF	Biota (shellfish)
Solid	CONSTRCTN	Construction materials
Solid	FABRIC	Fabrics & furnishing materials
Solid	FEED	Animal feed
Solid	FERTILISER	Fertiliser
Solid	FILTER	Filter
Solid	FOAM	Solid foam material
Solid	LATEX	Latex/Rubber
Solid	PACKAGING	Packaging material
Solid	PAPER	Paper
Solid	PLANT	Plant (vegetation)
Solid	POWDER	Powder
Solid	SWAB	Swab
Water	BAL	Ballast Water
Water	BIL	Bilge Water
Water	DW	Drinking Water
Water	EFFLUENT	Effluent
Water	GW	Ground Water
Water	INFLUENT	Influent
Water	MINEW	Mine Water
Water	MW	Mineral Water
Water	SALTW	Salt Water
Water	SW	Surface Water
Water	TW	Tap Water
Water	W	Unknown Water

Report No.: 25-04383-1

Key Code	Description
N	Not Accredited Test
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
UF	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
O	Marine Management Organisation (MMO) Validated
SN	Subcontracted to approved laboratory not accredited for the test
SU	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SIN	Subcontracted to internal RPS Group laboratory not accredited for the test
SIU	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
SIM	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
*	Modified standard method
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis
L (in results)	Result is outside normal limits

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 month (if frozen) from the issue date of this report
Waters	2 weeks from the issue date of this report
Other Liquids	1 month from the issue date of this report
Solids / Soils	1 month from the issue date of this report
Sediments	1 month from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

Soil Typing	Description
Type 1	Clay - Brown
Type 2	Clay - Grey/Black
Type 3	Sand
Type 4	Top Soil (Standard)
Type 5	Top Soil (High Peat)
Type 6	Made Ground (>50% Clay)
Type 7	Made Ground (>50% Sand)
Type 8	Made Ground (>50% Top Soil)
Type X	Other

Dev code	Description
D	No sampling date provided.
T	No sampling time provided.
Z	Temperature of samples exceeded in transit/storage.
V	Excessive headspace for volatile determinands.
P	Sample submitted without required preservative(s).
C	Incorrect container.
H	Holding time exceeded (sampling to extraction).
X	Holding time exceeded (sampling to receipt).

Note: Where the following information is included in this certificate, it has usually been supplied by the customer: Customer Sample ID, Sample Location, Sample Depth, Sampling Date and Sampling Time. The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Irish Water		
11 November 2025		
From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
TP-M25	0.50	1.00	ES	ES	06/05/25										1	EnvLab 25/05609/1
TP-M27	0.50	1.00	ES	ES	02/05/25										1	EnvLab 25/05609/2
TP-M28	0.50	1.00	ES	ES	02/05/25										1	EnvLab 25/05609/3
TP-M29	0.40	0.80	ES	ES	07/05/25										1	EnvLab 25/05609/4
TP-M32	0.50	1.00	ES	ES	21/05/25										1	EnvLab 25/05609/5
TP-M35	0.50	1.00	ES	ES	21/05/25										1	EnvLab 25/05609/6

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

Final Test Report

Envirolab Job Number:	25/05609		
Issue Number:	1	Date:	17-Jun-25

Client: Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager:	Damien O'Reilly/IDL Lab
Project Name:	Lough Talt - 2024SO105
Project Ref:	2024SO105
Order No:	PKB21191
Date Samples Received:	29-May-25
Date Instructions Received:	29-May-25
Date Analysis Completed:	13-Jun-25

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

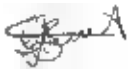
IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/05609/1				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM25				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				26/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.02**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**4.91**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N			500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1** mg/l	**10:1** mg/kg	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.008	**0.080**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	0.004	**0.040**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.005	**0.050**	0.5	10	30
Nickel	A-T-025	N	N	0.003	**0.030**	0.4	10	40
Lead	A-T-025	N	N	0.003	**0.030**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.008	**0.080**	4	50	200
Chloride	A-T-026	N	N	5	**50**	800	15000	25000
Fluoride	A-T-026	N	N	0.7	**7.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	71	**710**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.6				
Conductivity (µS/cm)	A-T-037	N	N	143				
Mass Sample (kg)				0.223				
Dry Matter (%)	A-T-044	N	N	78.6				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/05609/2				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM27				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				26/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.34**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.64**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N			500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.004	**0.040**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.004	**0.040**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.004	**0.040**	4	50	200
Chloride	A-T-026	N	N	2	**21**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	3	**26**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	40	**400**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.2				
Conductivity (µS/cm)	A-T-037	N	N	80				
Mass Sample (kg)				0.194				
Dry Matter (%)	A-T-044	N	N	90				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/05609/3				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM28				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				26/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				1A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**9.01**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.15**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N			500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.004	**0.040**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.002	**0.020**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.002	**0.020**	4	50	200
Chloride	A-T-026	N	N	1	**12**	800	15000	25000
Fluoride	A-T-026	N	N	0.3	**3.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	30	**300**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.8				
Conductivity (µS/cm)	A-T-037	N	N	60				
Mass Sample (kg)				0.176				
Dry Matter (%)	A-T-044	N	N	99.6				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/05609/4				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM29				
Depth to Top				0.4				
Depth to Bottom				0.80				
Date Sampled				26/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				1AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.23**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**4.05**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N			500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.006	**0.060**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.003	**0.030**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.005	**0.050**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.007	**0.070**	4	50	200
Chloride	A-T-026	N	N	6	**56**	800	15000	25000
Fluoride	A-T-026	N	N	0.3	**3.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	9	**88**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	52	**520**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.02	**0.20**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.5				
Conductivity (µS/cm)	A-T-037	N	N	103				
Mass Sample (kg)				0.177				
Dry Matter (%)	A-T-044	N	N	98.9				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/05609/5				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM32				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				26/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				5AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.67**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.79**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N			500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.003	**0.030**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.014	**0.140**	4	50	200
Chloride	A-T-026	N	N	2	**21**	800	15000	25000
Fluoride	A-T-026	N	N	0.1	**1.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	1	**11**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	<20	**<200**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.1				
Conductivity (µS/cm)	A-T-037	N	N	24				
Mass Sample (kg)				0.227				
Dry Matter (%)	A-T-044	N	N	77.2				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/05609/6				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM35				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				26/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.55**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.58**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N			500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1**	**10:1**	**Limit values for compliance leaching test using**		
				mg/l	**mg/kg**	**BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.002	**0.020**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.004	**0.040**	4	50	200
Chloride	A-T-026	N	N	1	**11**	800	15000	25000
Fluoride	A-T-026	N	N	0.2	**2.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	56	**560**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.9				
Conductivity (µS/cm)	A-T-037	N	N	113				
Mass Sample (kg)				0.219				
Dry Matter (%)	A-T-044	N	N	80				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/05609
Issue Number: 1 **Date:** 13 June, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: 2024SO105
Order No: PKB21191
Date Samples Received: 29/05/25
Date Instructions Received: 29/05/25
Date Analysis Completed: 13/06/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/05609

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/05609/1	25/05609/2	25/05609/3	25/05609/4	25/05609/5	25/05609/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM25	TPM27	TPM28	TPM29	TPM32	TPM35				
Depth to Top	0.50	0.50	0.50	0.40	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	0.80	1.00	1.00				
Date Sampled	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	1A	1AE	5AE	4AE				
% Moisture at <40C$_A$	17.8	9.8	1.4	1.7	21.6	19.0		% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	8.02	8.34	9.01	8.23	6.67	7.55		pH	0.01	A-T-031s
Sulphate (acid soluble)$_D$$^{M\#}$	930	720	270	780	270	430		mg/kg	200	A-T-028s
Cyanide (total)$_A$$^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Sulphide$_A$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$$^{M\#}$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-029s
Total Organic Carbon$_D$$^{M\#}$	4.91	1.64	1.15	4.05	1.79	1.58		% w/w	0.08	A-T-032s
Antimony$_D$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-024s
Arsenic$_D$$^{M\#}$	3	6	<1	4	4	1		mg/kg	1	A-T-024s
Barium$_D$$^{\#}$	27	20	35	20	12	15		mg/kg	3	A-T-024s
Boron (water soluble)$_D$$^{M\#}$	1.0	<1.0	<1.0	<1.0	<1.0	<1.0		mg/kg	1	A-T-027s
Cadmium$_D$$^{M\#}$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		mg/kg	1	A-T-024s
Copper$_D$$^{M\#}$	14	10	9	17	6	6		mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	7	8	7	10	11	13		mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Chromium (trivalent)	7	8	7	10	11	13		mg/kg	1	Calc
Lead$_D$$^{M\#}$	46	7	3	62	7	7		mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Molybdenum$_D$$^{M\#}$	<1	<1	<1	1	<1	<1		mg/kg	1	A-T-024s
Nickel$_D$$^{M\#}$	15	21	15	17	13	13		mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	66	38	21	58	20	36		mg/kg	1	A-T-024s

Envirolab Job Number: 25/05609

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/05609/1	25/05609/2	25/05609/3	25/05609/4	25/05609/5	25/05609/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM25	TPM27	TPM28	TPM29	TPM32	TPM35				
Depth to Top	0.50	0.50	0.50	0.40	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	0.80	1.00	1.00				
Date Sampled	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	1A	1AE	5AE	4AE				
Asbestos in Soil (inc. matrix)										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 25/05609

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/05609/1	25/05609/2	25/05609/3	25/05609/4	25/05609/5	25/05609/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM25	TPM27	TPM28	TPM29	TPM32	TPM35				
Depth to Top	0.50	0.50	0.50	0.40	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	0.80	1.00	1.00				
Date Sampled	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	1A	1AE	5AE	4AE				
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	0.02	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	0.04	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	0.10	<0.02	<0.02	<0.02	<0.02	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	1.03	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	1.92	<0.04	<0.04	0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	2.01	<0.05	<0.05	0.06	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	3.42	<0.05	<0.05	0.13	<0.05	<0.05		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	0.66	<0.07	<0.07	<0.07	<0.07	<0.07		mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	1.47	<0.06	<0.06	0.09	<0.06	<0.06		mg/kg	0.06	A-T-019s
Coronene$_A$	0.89	0.01	<0.01	0.06	<0.01	<0.01		mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	0.52	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	1.89	<0.08	<0.08	<0.08	<0.08	<0.08		mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.02	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	2.98	<0.03	<0.03	0.11	<0.03	<0.03		mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	0.33	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	1.79	<0.07	<0.07	0.08	<0.07	<0.07		mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	19.1	<0.08	<0.08	0.57	<0.08	<0.08		mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/05609

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/05609/1	25/05609/2	25/05609/3	25/05609/4	25/05609/5	25/05609/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM25	TPM27	TPM28	TPM29	TPM32	TPM35				
Depth to Top	0.50	0.50	0.50	0.40	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	0.80	1.00	1.00				
Date Sampled	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	1A	1AE	5AE	4AE				
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7$_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.003	A-T-004s

Envirolab Job Number: 25/05609

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/05609/1	25/05609/2	25/05609/3	25/05609/4	25/05609/5	25/05609/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM25	TPM27	TPM28	TPM29	TPM32	TPM35				
Depth to Top	0.50	0.50	0.50	0.40	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	0.80	1.00	1.00				
Date Sampled	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	1A	1AE	5AE	4AE				
Envirolab WAC A (Leachate only) 10:1										
Mass Sample (1 stage WAC)	0.223	0.194	0.176	0.177	0.227	0.219		Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	78.6	90.0	99.6	98.9	77.2	80.0		% w/w	0.1	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<1	2	<1	<1		mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	2	<1	1	3	<1	<1		mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	60	14	49	49	3	1		mg/kg	1	A-T-055s
Total Aliphatics$_A$	102	19	110	93	3	1		mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-055s
Aro >C12-C16$_A$	4	<1	1	2	<1	<1		mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	22	1	2	4	<1	<1		mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	184	3	25	45	<1	1		mg/kg	1	A-T-055s
Aro >C35-C40$_A$	44	2	66	50	<1	<1		mg/kg	1	A-T-055s
Total Aromatics$_A$	253	7	94	101	<1	1		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	355	25	204	193	3	2		mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C35-C40$_A$	40	4	60	39	<1	<1		mg/kg	1	A-T-055s

Envirolab Job Number: 25/05609

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/05609/1	25/05609/2	25/05609/3	25/05609/4	25/05609/5	25/05609/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM25	TPM27	TPM28	TPM29	TPM32	TPM35				
Depth to Top	0.50	0.50	0.50	0.40	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	0.80	1.00	1.00				
Date Sampled	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	1A	1AE	5AE	4AE				
Ammoniacal nitrogen as N (leachable)$_A$	0.11	<0.05	<0.05	<0.05	<0.05	<0.05		mg/l	0.05	A-T-033w

Envirolab Job Number: 25/05609

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/05609/1	25/05609/2	25/05609/3	25/05609/4	25/05609/5	25/05609/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM25	TPM27	TPM28	TPM29	TPM32	TPM35				
Depth to Top	0.50	0.50	0.50	0.40	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	0.80	1.00	1.00				
Date Sampled	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	1A	1AE	5AE	4AE				
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*	*	*	*	*	*				A-T-001
pH (10:1 leachable)$_A$	7.61	8.21	8.83	8.50	7.11	7.86		pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	143	80	60	103	24	113		µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	71	40	30	52	<20	56		mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	4.98	2.13	1.21	5.61	2.10	1.07		mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	0.70	0.38	0.29	0.34	0.13	0.18		mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	<1.00	2.60	<1.00	8.77	1.07	<1.00		mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	<0.01	<0.01	<0.01	0.02	<0.01	<0.01		mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.008	0.004	0.004	0.006	0.003	0.002		mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	0.003	<0.001	<0.001	0.005	<0.001	<0.001		mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	0.005	0.004	0.002	0.003	<0.001	<0.001		mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	0.003	<0.002	<0.002	<0.002	<0.002	<0.002		mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.008	0.004	0.002	0.007	0.014	0.004		mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.08	0.04	0.04	0.06	0.03	0.02		mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	50	21	12	56	21	11		mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	Calc-no stones
DOC (10:1 cumulative mg/kg)	<200	<200	<200	<200	<200	<200		mg/kg	200	Calc-no stones
Fluoride (10:1 cumulative mg/kg)	7	4	3	3	1	2		mg/kg	1	Calc-no stones

Envirolab Job Number: 25/05609

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/05609/1	25/05609/2	25/05609/3	25/05609/4	25/05609/5	25/05609/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM25	TPM27	TPM28	TPM29	TPM32	TPM35				
Depth to Top	0.50	0.50	0.50	0.40	0.50	0.50				
Depth To Bottom	1.00	1.00	1.00	0.80	1.00	1.00				
Date Sampled	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25	26-May-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	4AE	4AE	1A	1AE	5AE	4AE				
Lead (10:1 cumulative mg/kg)	0.03	<0.01	<0.01	0.05	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	0.05	0.04	0.02	0.03	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	0.03	<0.02	<0.02	<0.02	<0.02	<0.02		mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	<0.1	<0.1	<0.1	0.2	<0.1	<0.1		mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	<10	26	<10	88	11	<10		mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	710	400	300	520	<200	560		mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.08	0.04	0.02	0.07	0.14	0.04		mg/kg	0.02	Calc-no stones

Report Notes

General
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•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos
Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/05609

Date Received: 29/05/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 16.1

Clients Project No: 2024SO105

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/05609/1	25/05609/2	25/05609/3	25/05609/4	25/05609/5	25/05609/6
Client Sample No	1	1	1	1	1	1
Client Sample ID/Depth	TPM25 0.50-1.00m	TPM27 0.50-1.00m	TPM28 0.50-1.00m	TPM29 0.40-0.80m	TPM32 0.50-1.00m	TPM35 0.50-1.00m
Date Sampled	26/05/25	26/05/25	26/05/25	26/05/25	26/05/25	26/05/25
A-T-004s	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025
A-T-019s	10/06/2025	10/06/2025	10/06/2025	10/06/2025	10/06/2025	10/06/2025
A-T-022s	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025
A-T-024s	12/06/2025	12/06/2025	12/06/2025	13/06/2025	13/06/2025	13/06/2025
A-T-025w	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-026w	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-026w (F)	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-027s	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-028s	13/06/2025	13/06/2025	13/06/2025	13/06/2025	13/06/2025	13/06/2025
A-T-029s	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-031s	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-031w	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-032s	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-032w	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-033w	03/06/2025	03/06/2025	03/06/2025	03/06/2025	03/06/2025	03/06/2025
A-T-037w	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-040s	13/06/2025	13/06/2025	13/06/2025	13/06/2025	13/06/2025	13/06/2025
A-T-042sTCN	04/06/2025	04/06/2025	04/06/2025	04/06/2025	04/06/2025	04/06/2025
A-T-043-s	03/06/2025	03/06/2025	03/06/2025	03/06/2025	03/06/2025	03/06/2025
A-T-044	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-045	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025
A-T-050s	04/06/2025	04/06/2025	04/06/2025	04/06/2025	04/06/2025	04/06/2025
A-T-050w	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
A-T-055s	05/06/2025	06/06/2025	05/06/2025	05/06/2025	06/06/2025	05/06/2025
Calc	13/06/2025	13/06/2025	13/06/2025	13/06/2025	13/06/2025	13/06/2025
Calc-As Recd	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025
Calc-no stones	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025
Probe (w)	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025	12/06/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105		Irish Water	
Project Name	Lot 1, Lough Talt		11 November 2025	
Schedule ID	2024SO105_total		From Feb - Oct 2025	

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
BH-M15	1.00		D	2	27/03/25				1			1	1			EnvLab 25/05766/01
BH-M15	3.00		D	8	27/03/25				1			1	1			EnvLab 25/05766/02
BH-M16	1.00		D	2	31/03/25				1			1	1			EnvLab 25/05766/03
BH-M20	1.00		D	2	01/04/25				1			1	1			EnvLab 25/05766/04
BH-M22	**0.00**	1.00	B	1	02/04/25		1		1			1	1			EnvLab 25/05766/05
BH-M22	1.00		D	2	02/04/25		1		1			1	1			EnvLab 25/05766/06
BH-M23	1.00		D	2	03/04/25				1			1	1			EnvLab 25/05766/07
BH-M23	2.00		D	5	03/04/25				1			1	1			EnvLab 25/05766/08
BH-T01	2.00		D	5	09/04/25				1			1	1			EnvLab 25/05766/12
BH-T02	1.00		D	2	08/04/25				1			1	1			EnvLab 25/05766/13
BH-T02	3.00		D	8	08/04/25				1			1	1			EnvLab 25/05766/14
TP-M03	0.50	1.00	D	2	21/03/25				1			1	1			EnvLab 25/05766/15
TP-M05	0.50	1.00	B	1	26/03/25				1			1	1			EnvLab 25/05766/16
TP-M06	1.50	2.00	D	4	26/03/25				1			1	1			EnvLab 25/05766/17
TP-M09	0.50	1.00	D	2	19/03/25				1			1	1			EnvLab 25/05766/18
TP-M11	1.50	2.00	D	4	02/04/25				1			1	1			EnvLab 25/05766/19
TP-M13	1.80	2.30	D	4	02/04/25				1			1	1			EnvLab 25/05766/20
TP-M15	1.50	2.00	D	4	07/04/25				1			1	1			EnvLab 25/05766/21
TP-M16	1.80	2.30	D	4	08/04/25				1			1	1			EnvLab 25/05766/22
TP-M49	0.50	1.00	D	2	19/03/25				1			1	1			EnvLab 25/05766/23
TP-M52	1.50	2.00	D	4	18/03/25				1			1	1			EnvLab 25/05766/24
TP-M16	0.50	1.00	D	2	08/04/25		1									EnvLab 25/05766/25

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/05766
Issue Number: 1 **Date:** 16 June, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lot 1, Lough Talt
Project Ref: 2024SO105
Order No: PKB 21191
Date Samples Received: 02/06/25
Date Instructions Received: 02/06/25
Date Analysis Completed: 16/06/25

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 25/05766

Client Project Name: Lot 1, Lough Talt

Client Project Ref: 2024SO105

Lab Sample ID	25/05766/1	25/05766/2	25/05766/3	25/05766/4	25/05766/5	25/05766/6	25/05766/7	Units	Limit of Detection	Method ref
Client Sample No	2	8	2	2	1	2	2			
Client Sample ID	BH-M15	BH-M15	BH-M16	BH-M20	BH-M22	BH-M22	BH-M23			
Depth to Top	1.00	3.00	1.00	1.00	0.00	1.00	1.00			
Depth To Bottom					1.00					
Date Sampled	08-May-25	08-May-25	07-May-25	09-May-25	12-May-25	12-May-25	12-May-25			
Sample Type	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - B	SOIL - D	SOIL - D			
Sample Matrix Code	4A	4A	6AE	5A	6AE	5A	4A			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	8.17	7.99	7.63	8.04	5.13	7.02	6.99	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	15	13	25	<10	17	<10	<10	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	210	<200	580	<200	420	<200	<200	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	-	-	-	-	7.93	1.64	-	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/05766

Client Project Name: Lot 1, Lough Talt

Client Project Ref: 2024SO105

Lab Sample ID	25/05766/8	25/05766/9	25/05766/10	25/05766/11	25/05766/12	25/05766/13	25/05766/14	Units	Limit of Detection	Method ref
Client Sample No	5	2	8	2	5	2	8			
Client Sample ID	BH-M23	BH-R1	BH-R1	BH-R2	BH-T01	BH-T02	BH-T02			
Depth to Top	2.00	1.00	3.00	1.00	2.00	1.00	3.00			
Depth To Bottom										
Date Sampled	12-May-25	07-May-25	07-May-25	09-May-25	22-May-25	22-May-25	22-May-25			
Sample Type	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D			
Sample Matrix Code	4A	4A	4A	6AE	6A	4AE	5AE			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	7.02	6.16	6.04	5.37	8.17	7.88	8.06	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	<10	<10	<10	15	<10	<10	<10	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	<200	<200	<200	210	<200	570	<200	mg/kg	200	A-T-028s

Envirolab Job Number: 25/05766

Client Project Name: Lot 1, Lough Talt

Client Project Ref: 2024SO105

Lab Sample ID	25/05766/15	25/05766/16	25/05766/17	25/05766/18	25/05766/19	25/05766/20	25/05766/21	Units	Limit of Detection	Method ref
Client Sample No	2	1	4	2	4	4	4			
Client Sample ID	TP-M03	TP-M05	TP-M06	TP-M09	TP-M11	TP-M13	TP-M15			
Depth to Top	0.50	0.50	1.50	0.50	1.50	1.80	1.50			
Depth To Bottom	1.00	1.00	2.00	1.00	2.000	2.30	2.00			
Date Sampled	14-May-25	14-May-25	15-May-25	15-May-25	16-May-25	16-May-25	10-May-25			
Sample Type	SOIL - D	SOIL - B	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D			
Sample Matrix Code	6A	4A	4A	6A	5A	6A	5A			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	3.1	<0.1	% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	8.05	8.22	8.64	8.20	8.50	8.36	8.39	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D$$^{M\#}$	<10	<10	<10	11	121	12	46	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D$$^{M\#}$	<200	420	320	<1000	460	480	290	mg/kg	200	A-T-028s

Envirolab Job Number: 25/05766

Client Project Name: Lot 1, Lough Talt

Client Project Ref: 2024SO105

Lab Sample ID	25/05766/22	25/05766/23	25/05766/24					Units	Limit of Detection	Method ref
Client Sample No	4	2	4							
Client Sample ID	TP-M16	TP-M49	TP-M52							
Depth to Top	1.80	0.50	1.50							
Depth To Bottom	2.30	1.00	2.00							
Date Sampled	14-May-25	21-May-25	21-May-25							
Sample Type	SOIL - D	SOIL - D	SOIL - D							
Sample Matrix Code	5	4A	4A							
% Stones >10mm$_A$	<0.1	<0.1	<0.1					% w/w	0.1	A-T-044
pH$_D^{M\#}$	8.02	6.65	7.99					pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	19	<10	13					mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	980	290	1200					mg/kg	200	A-T-028s

Report Notes

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•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
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•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
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None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/05766

Date Received: 02/06/2025 (am)

Project: Lot 1, Lough Talt

Cool Box Temperatures (°C): 16.6, 16.6

Clients Project No: 2024SO105

Lab Sample ID	25/05766/1	25/05766/2	25/05766/3	25/05766/4	25/05766/5	25/05766/6	25/05766/9	25/05766/10	25/05766/11	25/05766/21
Client Sample No	2	8	2	2	1	2	2	8	2	4
Client Sample ID/Depth	BH-M15 1.00m	BH-M15 3.00m	BH-M16 1.00m	BH-M20 1.00m	BH-M22 0.00-1.00m	BH-M22 1.00m	BH-R1 1.00m	BH-R1 3.00m	BH-R2 1.00m	TP-M15 1.50-2.00m
Date Sampled	08/05/25	08/05/25	07/05/25	09/05/25	12/05/25	12/05/25	07/05/25	07/05/25	09/05/25	10/05/25
Deviation Code										
F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/05766/1	25/05766/2	25/05766/3	25/05766/4	25/05766/5	25/05766/6	25/05766/9	25/05766/10	25/05766/11	25/05766/21
Client Sample No	2	8	2	2	1	2	2	8	2	4
Client Sample ID/Depth	BH-M15 1.00m	BH-M15 3.00m	BH-M16 1.00m	BH-M20 1.00m	BH-M22 0.00-1.00m	BH-M22 1.00m	BH-R1 1.00m	BH-R1 3.00m	BH-R2 1.00m	TP-M15 1.50-2.00m
Date Sampled	08/05/25	08/05/25	07/05/25	09/05/25	12/05/25	12/05/25	07/05/25	07/05/25	09/05/25	10/05/25
Sulphate (acid soluble)	✓	✓	✓	✓			✓	✓	✓	✓
Organic Matter					✓	✓				

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/05766/1	25/05766/2	25/05766/3	25/05766/4	25/05766/5	25/05766/6	25/05766/7	25/05766/8	25/05766/9	25/05766/10	25/05766/11	25/05766/12
Client Sample No	2	8	2	2	1	2	2	5	2	8	2	5
Client Sample ID/Depth	BH-M15 1.00m	BH-M15 3.00m	BH-M16 1.00m	BH-M20 1.00m	BH-M22 0.00-1.00m	BH-M22 1.00m	BH-M23 1.00m	BH-M23 2.00m	BH-R1 1.00m	BH-R1 3.00m	BH-R2 1.00m	BH-T01 2.00m
Date Sampled	08/05/25	08/05/25	07/05/25	09/05/25	12/05/25	12/05/25	12/05/25	12/05/25	07/05/25	07/05/25	09/05/25	22/05/25
A-T-026s	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025
A-T-028s	10/06/2025	10/06/2025	10/06/2025	10/06/2025	10/06/2025	10/06/2025	10/06/2025	10/06/2025	10/06/2025	10/06/2025	10/06/2025	10/06/2025
A-T-031s	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025
A-T-032s					16/06/2025	16/06/2025						
A-T-044	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025

Lab Sample ID	25/05766/13	25/05766/14	25/05766/15	25/05766/16	25/05766/17	25/05766/18	25/05766/19	25/05766/20	25/05766/21	25/05766/22	25/05766/23	25/05766/24
Client Sample No	2	8	2	1	4	2	4	4	4	4	2	4
Client Sample ID/Depth	BH-T02 1.00m	BH-T02 3.00m	TP-M03 0.50-1.00m	TP-M05 0.50-1.00m	TP-M06 1.50-2.00m	TP-M09 0.50-1.00m	TP-M11 1.50-2.000m	TP-M13 1.80-2.30m	TP-M15 1.50-2.00m	TP-M16 1.80-2.30m	TP-M49 0.50-1.00m	TP-M52 1.50-2.00m
Date Sampled	22/05/25	22/05/25	14/05/25	14/05/25	15/05/25	15/05/25	16/05/25	16/05/25	10/05/25	14/05/25	21/05/25	21/05/25
A-T-026s	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025
A-T-028s	10/06/2025	10/06/2025	10/06/2025	10/06/2025	10/06/2025	11/06/2025	10/06/2025	10/06/2025	11/06/2025	11/06/2025	11/06/2025	11/06/2025
A-T-031s	09/06/2025	09/06/2025	09/06/2025	09/06/2025	09/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025	06/06/2025
A-T-032s												
A-T-044	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025	05/06/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Irish Water		
11 November 2025		
From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
STWM16	1.50	1.60	ES		27/05/25										1	EnvLab 25/06298/1
STWM22	1.70	1.80	ES		28/05/25										1	EnvLab 25/06298/2
TP-M36	0.50	1.00	ES	ES	20/05/25										1	EnvLab 25/06298/3
TP-M37	0.40	0.80	ES	ES	22/05/25										1	EnvLab 25/06298/4
TP-M39	0.50	1.00	ES	ES	26/05/25										1	EnvLab 25/06298/5

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Certificate of Analysis

Report No.: **25-05329-1**

Issue No.: **1**
Date of Issue **27/08/2025**

Customer Details:	Envirolab Ltd, 7 - 8 Sandpits Business Park, Mottram Road, Hyde, Greater Manchester, SK14 3AR, United Kingdom
Customer Contact:	Maleyka Owen-Agjef
Customer Order No.:	757208
Customer Reference:	Not Supplied
Quotation Reference:	Q25-03486 (Issue: 3)
Description:	5 geo samples
Date Received:	18/06/2025
Date Started:	23/06/2025
Date Completed:	27/08/2025
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **Marco Lattughi, Operational Director**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

Testing performed by RPS Environmental Management Limited, a Tetra Tech Company. Registered in England No. 01756175.
13 St Martins Way, Bedford, Bedfordshire, MK42 0LF. T +44 1462 480 400
Terms and conditions apply - copy on request

Results Summary

Report No.: 25-05329-1

Customer Reference: Not Supplied

Customer Order No: 757208

Customer Sample No						**25/06298/1**	**25/06298/2**	**25/06298/3**	**25/06298/4**	**25/06298/5**
RPS Sample No						100719	100720	100721	100722	100723
Sample Type						**GEO**	**GEO**	**GEO**	**GEO**	**GEO**
Sample Matrix						SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date						27/05/2025	28/05/2025	22/05/2025	20/05/2025	26/05/2025
Determinand	**CAS No**	**Codes**	**SOP**	**RL**	**Units**					
methyl acrylate	96-33-3	N	G132	0.1	mg/kg AR	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Deviating Samples

Report No.: 25-05329-1

Customer Reference: Not Supplied

Customer Order No: 757208

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
100719	25/06298/1		27/05/2025	GAJ500 500 mL amber glass jar	No	
100720	25/06298/2		28/05/2025	GAJ500 500 mL amber glass jar	No	
100721	25/06298/3		22/05/2025	GAJ500 500 mL amber glass jar	No	
100722	25/06298/4		20/05/2025	GAJ500 500 mL amber glass jar	No	
100723	25/06298/5		26/05/2025	GAJ500 500 mL amber glass jar	No	

Type	Matrix Code	Description
Food	CEREALPROD	Cereals, grains & products
Food	DRIEDFRUIT	Dried fruits
Food	FRIEDBAKED	Fried or baked food
Food	LEGUME	Legumes
Food	MEAT	Meat
Food	POWDERED	Powdered food
Food	PULSE	Pulses (dried legumes)
Food	VEGETABLES	Vegetables
Gas	TDTUBE	TD Tube
Gas	TENAX	Tenax Tube
Gas	TUBE	Tube
Gas	VAPOUR	Gas
Geological	SED_MAR	Marine Sediment
Geological	SED_RIV	River Sediment
Geological	SLUDG_SOL	Sludge (solid only)
Geological	SOIL	Soil
Liquid	BEVERAGE	Beverage
Liquid	BLOOD	Blood
Liquid	CONDENSATE	Condensate
Liquid	FOAM_LIQ	Liquid foam
Liquid	FORMULATN	Formula
Liquid	LEACHATE	Leachate
Liquid	OIL/GREASE	Oil or grease
Liquid	SLUDG_LIQ	Sludge (liquid only)
Liquid	SOLVENT	Solvent
Liquid	URINE	Urine
Sludge	SLUDG_WHL	Sludge for bulk route
Solid	BADGE	Badge
Solid	BEDDING	Bedding
Solid	BIOTA	Biota (general)
Solid	BIOTA_F	Biota (fish)
Solid	BIOTA_SF	Biota (shellfish)
Solid	CONSTRCTN	Construction materials
Solid	FABRIC	Fabrics & furnishing materials
Solid	FEED	Animal feed
Solid	FERTILISER	Fertiliser
Solid	FILTER	Filter
Solid	FOAM	Solid foam material
Solid	LATEX	Latex/Rubber
Solid	PACKAGING	Packaging material
Solid	PAPER	Paper
Solid	PLANT	Plant (vegetation)
Solid	POWDER	Powder
Solid	SWAB	Swab
Water	BAL	Ballast Water
Water	BIL	Bilge Water
Water	DW	Drinking Water
Water	EFFLUENT	Effluent
Water	GW	Ground Water
Water	INFLUENT	Influent
Water	MINEW	Mine Water
Water	MW	Mineral Water
Water	SALTW	Salt Water
Water	SW	Surface Water
Water	TW	Tap Water
Water	W	Unknown Water

Key Code	Description
N	Not Accredited Test
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
UF	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
O	Marine Management Organisation (MMO) Validated
SN	Subcontracted to approved laboratory not accredited for the test
SU	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SIN	Subcontracted to internal RPS Group laboratory not accredited for the test
SIU	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
SIM	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
*	Modified standard method
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis
L (in results)	Result is outside normal limits

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 week from the issue date of this report
Waters	1 week from the issue date of this report
Other Liquids	1 week from the issue date of this report
Solids / Soils	1 week from the issue date of this report
Sediments	1 week from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

Soil Typing	Description
Type 1	Clay - Brown
Type 2	Clay - Grey/Black
Type 3	Sand
Type 4	Top Soil (Standard)
Type 5	Top Soil (High Peat)
Type 6	Made Ground (>50% Clay)
Type 7	Made Ground (>50% Sand)
Type 8	Made Ground (>50% Top Soil)
Type X	Other

Dev code	Description
D	No sampling date provided.
T	No sampling time provided.
Z	Temperature of samples exceeded in transit/storage.
V	Excessive headspace for volatile determinands.
P	Sample submitted without required preservative(s).
C	Incorrect container.
H	Holding time exceeded (sampling to extraction).
X	Holding time exceeded (sampling to receipt).

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 25-20046-1

Initial Date of Issue: 23-Jun-2025

Re-Issue Details:

Client *Envirolab*

Client Address: *Sandpits Business Park*
Mottram Road
Hyde
Cheshire
SK14 3AR

Contact(s): *Subcon*

Project *2024SO105 25/06298*

Quotation No.: *Q25-38220* **Date Received:** 17-Jun-2025

Order No.: 757207 **Date Instructed:** 17-Jun-2025

No. of Samples: *5*

Turnaround (Wkdays): 5 **Results Due:** 23-Jun-2025

Date Approved: 23-Jun-2025

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 2024SO105 25/06298

Client: Envirolab			**Chemtest Job No.:**			25-20046	25-20046	25-20046	25-20046	25-20046
Quotation No.: Q25-38220			**Chemtest Sample ID.:**			1987644	1987645	1987646	1987647	1987648
Order No.: 757207			*Client Sample Ref.:*			*25/06298/1 STWM16*	*25/06298/2 STWM22*	*25/06298/3 TPM37*	*25/06298/4 TPM36*	*25/06298/5 TPM39*
			Sample Type:			*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
			Top Depth (m):			*1.50*	*1.70*	*0.40*	*0.50*	*0.50*
			Bottom Depth (m):			*1.60*	*1.80*	*0.80*	*1.00*	*1.00*
			Date Sampled:			*27-May-2025*	*28-May-2025*	*22-May-2025*	*20-May-2025*	*26-May-2025*
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**					
Moisture		N	2030	%	0.020	37	32	17	26	75
Soil Colour		N	2030		N/A	Brown	Black	Brown	Brown	Brown
Other Material		N	2030		N/A	Stones	Stones	Stones and Roots	Stones	Stones and Roots
Soil Texture		N	2030		N/A	Loam	Clay	Clay	Clay	Clay
Acrylonitrile		N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID	*Clients Sample Ref:*	*Clients Sample ID:*	*Clients Reference:*	*Sampled Date:*	Deviation Code(s):	Containers Received:
1987644	*25/06298/1 STWM16*			*27-May-2025*	B,H	Amber Glass 60ml
1987645	*25/06298/2 STWM22*			*28-May-2025*	B,H	Amber Glass 60ml
1987646	*25/06298/3 TPM37*			*22-May-2025*	B,H	Amber Glass 60ml
1987647	*25/06298/4 TPM36*			*20-May-2025*	B,H	Amber Glass 60ml
1987648	*25/06298/5 TPM39*			*26-May-2025*	B,H	Amber Glass 60ml

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection
Text example	All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at ≤ 30°C prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

Final Test Report

Envirolab Job Number:	25/06298
Issue Number:	1
Date:	28-Aug-25
Client:	Irish Drilling Ltd Old Galway Road Loughrea Co. Galway Ireland H62 VX39
Project Manager:	Damien O'Reilly/IDL Lab
Project Name:	Lough Talt - 2024SO105
Project Ref:	2024SO105
Order No:	PKB21191
Date Samples Received:	13-Jun-25
Date Instructions Received:	13-Jun-25
Date Analysis Completed:	28-Aug-25

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Danielle Brierley
Client Services Supervisor

envirolab

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/06298/1				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				STWM16				
Depth to Top				1.5				
Depth to Bottom				1.60				
Date Sampled				27/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.57**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**30.4**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	0.001	**0.010**	0.5	2	25
Barium	A-T-025	N	N	0.010	**0.100**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.018	**0.180**	4	50	200
Chloride	A-T-026	N	N	13	**135**	800	15000	25000
Fluoride	A-T-026	N	N	0.2	**2.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	66	**661**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	152	**1520**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.2				
Conductivity (µS/cm)	A-T-037	N	N	305				
Mass Sample (kg)				0.196				
Dry Matter (%)	A-T-044	N	N	89.1				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/06298/2				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				STWM22				
Depth to Top				1.7				
Depth to Bottom				1.80				
Date Sampled				28/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.96**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**3.9**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**47**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.016	**0.160**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.006	**0.060**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	0.003	**0.030**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.006	**0.060**	4	50	200
Chloride	A-T-026	N	N	3	**35**	800	15000	25000
Fluoride	A-T-026	N	N	0.8	**8.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	43	**427**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	109	**1090**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.8				
Conductivity (µS/cm)	A-T-037	N	N	219				
Mass Sample (kg)				0.187				
Dry Matter (%)	A-T-044	N	N	93.4				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/06298/3				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM37				
Depth to Top				0.4				
Depth to Bottom				0.80				
Date Sampled				22/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.50**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.06**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.009	**0.090**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.002	**0.020**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.006	**0.060**	4	50	200
Chloride	A-T-026	N	N	4	**37**	800	15000	25000
Fluoride	A-T-026	N	N	0.5	**5.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	2	**21**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	38	**380**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.1				
Conductivity (µS/cm)	A-T-037	N	N	76				
Mass Sample (kg)				0.188				
Dry Matter (%)	A-T-044	N	N	93.1				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/06298/4				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM36				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				20/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.42**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.79**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.006	**0.060**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.011	**0.110**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.020	**0.200**	4	50	200
Chloride	A-T-026	N	N	17	**169**	800	15000	25000
Fluoride	A-T-026	N	N	1.0	**10.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	64	**642**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	93	**930**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	6.7				
Conductivity (µS/cm)	A-T-037	N	N	186				
Mass Sample (kg)				0.182				
Dry Matter (%)	A-T-044	N	N	95.9				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/06298/5				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM39				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				26/05/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.00**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**40.4**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.007	**0.070**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.001	**0.010**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.002	**0.020**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.006	**0.060**	4	50	200
Chloride	A-T-026	N	N	4	**36**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	2	**23**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	52	**520**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.4				
Conductivity (µS/cm)	A-T-037	N	N	104				
Mass Sample (kg)				0.185				
Dry Matter (%)	A-T-044	N	N	94.5				

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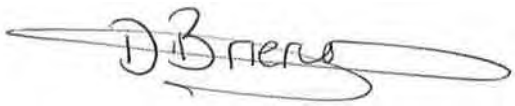
FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/06298
Issue Number: 1 **Date:** 28 August, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: 2024SO105
Order No: PKB21191
Date Samples Received: 13/06/25
Date Instructions Received: 13/06/25
Date Analysis Completed: 28/08/25

Approved by:



Danielle Brierley
Client Services Supervisor

Envirolab Job Number: 25/06298

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06298/1	25/06298/2	25/06298/3	25/06298/4	25/06298/5			Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1					
Client Sample ID	STWM16	STWM22	TPM37	TPM36	TPM39					
Depth to Top	1.50	1.70	0.40	0.50	0.50					
Depth To Bottom	1.60	1.80	0.80	1.00	1.00					
Date Sampled	27-May-25	28-May-25	22-May-25	20-May-25	26-May-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4AE	6A	6AE	4AE	4AE					
% Moisture at <40C$_A$	65.2	16.4	18.3	16.3	76.6			% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			% w/w	0.1	A-T-044
pH$_D^{M\#}$	6.57	7.96	8.50	8.42	6.00			pH	0.01	A-T-031s
Sulphate (acid soluble)$_D^{M\#}$	3100	1100	330	690	7300			mg/kg	200	A-T-028s
Cyanide (total)$_A^{M\#}$	<1	<1	<1	<1	<1			mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	<0.2	<0.2			mg/kg	0.2	A-T-050s
Sulphide$_A$	<5	<5	<5	<5	<5			mg/kg	5	A-T-043-s
Sulphur (elemental)$_D^{M\#}$	7	76	<5	5	26			mg/kg	5	A-T-029s
Total Organic Carbon$_D^{M\#}$	30.4	3.90	1.06	2.79	40.4			% w/w	0.08	A-T-032s
Antimony$_D$	<5	<5	<5	<5	<5			mg/kg	5	A-T-024s
Arsenic$_D^{M\#}$	<1	4	<1	2	9			mg/kg	1	A-T-024s
Barium$_D^{\#}$	16	31	18	11	23			mg/kg	3	A-T-024s
Boron (water soluble)$_D^{M\#}$	1.3	<1.0	<1.0	<1.0	2.7			mg/kg	1	A-T-027s
Cadmium$_D$	<1.0	<1.0	<1.0	<1.0	1.1			mg/kg	1	A-T-024s
Copper$_D^{M\#}$	3	10	4	8	13			mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	3	7	9	6	7			mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<4	<1	<1	<1	<4			mg/kg	1	A-T-040s
Chromium (trivalent)	<4	7	9	6	7			mg/kg	1	Calc
Lead$_D^{M\#}$	3	32	6	6	4			mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17	<0.17	<0.17			mg/kg	0.17	A-T-024s
Molybdenum$_D^{M\#}$	<1	<1	<1	<1	11			mg/kg	1	A-T-024s
Nickel$_D^{M\#}$	5	14	14	7	32			mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	1	<1	<1	<1	16			mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	10	42	26	17	11			mg/kg	1	A-T-024s
Mineral Oil (>C10-C40)$_A$	<10	47	<10	<10	<10			mg/kg	10	A-T-007s
Methyl Acrylate$_A$	Appended	Appended	Appended	Appended	Appended			mg/kg	0.1	Subcon RPS MH
Acrylonitrile$_A$	Appended	Appended	Appended	Appended	Appended			µg/kg	10	Subcon Chemtest

Envirolab Job Number: 25/06298

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06298/1	25/06298/2	25/06298/3	25/06298/4	25/06298/5			Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1					
Client Sample ID	STWM16	STWM22	TPM37	TPM36	TPM39					
Depth to Top	1.50	1.70	0.40	0.50	0.50					
Depth To Bottom	1.60	1.80	0.80	1.00	1.00					
Date Sampled	27-May-25	28-May-25	22-May-25	20-May-25	26-May-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4AE	6A	6AE	4AE	4AE					
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD	NAD	NAD					A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-					A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-					A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A	N/A	N/A					A-T-045

Envirolab Job Number: 25/06298

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06298/1	25/06298/2	25/06298/3	25/06298/4	25/06298/5			Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1					
Client Sample ID	STWM16	STWM22	TPM37	TPM36	TPM39					
Depth to Top	1.50	1.70	0.40	0.50	0.50					
Depth To Bottom	1.60	1.80	0.80	1.00	1.00					
Date Sampled	27-May-25	28-May-25	22-May-25	20-May-25	26-May-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4AE	6A	6AE	4AE	4AE					
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	0.06	0.04	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	0.02	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	0.06	0.11	<0.02	<0.02	<0.02			mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04	0.47	<0.04	<0.04	<0.04			mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04	0.68	<0.04	<0.04	<0.04			mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05	0.85	<0.05	0.06	<0.05			mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05	0.78	<0.05	<0.05	<0.05			mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07	0.24	<0.07	<0.07	<0.07			mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06	0.53	<0.06	<0.06	<0.06			mg/kg	0.06	A-T-019s
Coronene$_A$	<0.01	0.17	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	<0.04	0.11	<0.04	<0.04	<0.04			mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	0.23	1.03	<0.08	<0.08	<0.08			mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.03	0.05	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03	0.68	<0.03	<0.03	<0.03			mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03			mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	0.20	0.31	<0.03	<0.03	<0.03			mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07	0.89	<0.07	<0.07	<0.07			mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	0.58	6.96	<0.08	<0.08	<0.08			mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/06298

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06298/1	25/06298/2	25/06298/3	25/06298/4	25/06298/5			Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1					
Client Sample ID	STWM16	STWM22	TPM37	TPM36	TPM39					
Depth to Top	1.50	1.70	0.40	0.50	0.50					
Depth To Bottom	1.60	1.80	0.80	1.00	1.00					
Date Sampled	27-May-25	28-May-25	22-May-25	20-May-25	26-May-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4AE	6A	6AE	4AE	4AE					
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.003	<0.003	<0.003	<0.003	<0.003			mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002	<0.002	<0.002			mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004			mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007			mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006	<0.006	<0.006			mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004			mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004			mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7$_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007			mg/kg	0.003	A-T-004s

Envirolab Job Number: 25/06298

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06298/1	25/06298/2	25/06298/3	25/06298/4	25/06298/5			Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1					
Client Sample ID	STWM16	STWM22	TPM37	TPM36	TPM39					
Depth to Top	1.50	1.70	0.40	0.50	0.50					
Depth To Bottom	1.60	1.80	0.80	1.00	1.00					
Date Sampled	27-May-25	28-May-25	22-May-25	20-May-25	26-May-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4AE	6A	6AE	4AE	4AE					
Envirolab WAC A (Leachate only) 10:1										
Mass Sample (1 stage WAC)	0.196	0.187	0.188	0.182	0.185			Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	89.1	93.4	93.1	95.9	94.5			% w/w	0.1	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.05	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.05	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	17	4	<1	<1	4			mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	135	62	4	13	60			mg/kg	1	A-T-055s
Total Aliphatics$_A$	178	84	4	17	73			mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	<1	<1	<1			mg/kg	1	A-T-055s
Aro >C12-C16$_A$	6	4	<1	<1	4			mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	17	16	<1	1	9			mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	52	92	1	6	34			mg/kg	1	A-T-055s
Aro >C35-C40$_A$	32	11	<1	1	34			mg/kg	1	A-T-055s
Total Aromatics$_A$	106	122	1	8	81			mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	284	206	5	25	154			mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.05	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	A-T-022s
Ali >C35-C40$_A$	26	18	<1	4	9			mg/kg	1	A-T-055s

Envirolab Job Number: 25/06298

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06298/1	25/06298/2	25/06298/3	25/06298/4	25/06298/5			Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1					
Client Sample ID	STWM16	STWM22	TPM37	TPM36	TPM39					
Depth to Top	1.50	1.70	0.40	0.50	0.50					
Depth To Bottom	1.60	1.80	0.80	1.00	1.00					
Date Sampled	27-May-25	28-May-25	22-May-25	20-May-25	26-May-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4AE	6A	6AE	4AE	4AE					
Ammoniacal nitrogen as N (10:1 leachable)$_A$	0.11	<0.05	<0.05	0.06	<0.05			mg/l	0.05	A-T-033w

Envirolab Job Number: 25/06298

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06298/1	25/06298/2	25/06298/3	25/06298/4	25/06298/5			Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1					
Client Sample ID	STWM16	STWM22	TPM37	TPM36	TPM39					
Depth to Top	1.50	1.70	0.40	0.50	0.50					
Depth To Bottom	1.60	1.80	0.80	1.00	1.00					
Date Sampled	27-May-25	28-May-25	22-May-25	20-May-25	26-May-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4AE	6A	6AE	4AE	4AE					
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*	*	*	*	*					A-T-001
pH (10:1 leachable)$_A$	7.22	7.79	7.11	6.69	7.41			pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	305	219	76	186	104			µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	152	109	38	93	52			mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	13.48	3.47	3.72	16.87	3.57			mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	0.19	0.84	0.47	1.03	0.44			mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	66.09	42.65	2.08	64.21	2.34			mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	<0.01	<0.01	<0.01	<0.01	<0.01			mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	<2.0	<2.0	<2.0	<2.0	<2.0			mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001	0.003	<0.001	<0.001	<0.001			mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	0.001	<0.001	<0.001	<0.001	<0.001			mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.010	0.016	0.009	0.006	0.007			mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	<0.004	<0.004	<0.004	<0.004	<0.004			mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	<0.001	<0.001	0.002	<0.001	0.002			mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	<0.001	0.006	<0.001	0.011	0.001			mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	<0.002	<0.002	<0.002	<0.002	<0.002			mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001			mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.018	0.006	0.006	0.020	0.006			mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01	0.03	<0.01	<0.01	<0.01			mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.10	0.16	0.09	0.06	0.07			mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	135	35	37	169	36			mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	<0.04	<0.04	<0.04	<0.04	<0.04			mg/kg	0.04	Calc-no stones
DOC (10:1 cumulative mg/kg)	<200	<200	<200	<200	<200			mg/kg	200	Calc-no stones
Fluoride (10:1 cumulative mg/kg)	2	8	5	10	4			mg/kg	1	Calc-no stones

Envirolab Job Number: 25/06298

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06298/1	25/06298/2	25/06298/3	25/06298/4	25/06298/5			Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1					
Client Sample ID	STWM16	STWM22	TPM37	TPM36	TPM39					
Depth to Top	1.50	1.70	0.40	0.50	0.50					
Depth To Bottom	1.60	1.80	0.80	1.00	1.00					
Date Sampled	27-May-25	28-May-25	22-May-25	20-May-25	26-May-25					
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES					
Sample Matrix Code	4AE	6A	6AE	4AE	4AE					
Lead (10:1 cumulative mg/kg)	<0.01	<0.01	0.02	<0.01	0.02			mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005	<0.005	<0.005	<0.005	<0.005			mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	<0.01	0.06	<0.01	0.11	0.01			mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	<0.02	<0.02	<0.02	<0.02	<0.02			mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	<0.1	<0.1	<0.1	<0.1	<0.1			mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01			mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	661	427	21	642	23			mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	1520	1090	380	930	520			mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.18	0.06	0.06	0.20	0.06			mg/kg	0.02	Calc-no stones

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/06298

Date Received: 13/06/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 18.3

Clients Project No: 2024SO105

Lab Sample ID	25/06298/1	25/06298/2	25/06298/3	25/06298/4	25/06298/5
Client Sample No	1	1	1	1	1
Client Sample ID/Depth	STWM16 1.50-1.60m	STWM22 1.70-1.80m	TPM37 0.40-0.80m	TPM36 0.50-1.00m	TPM39 0.50-1.00m
Date Sampled	27/05/25	28/05/25	22/05/25	20/05/25	26/05/25
Deviation Code					
F	✓	✓	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/06298/1	25/06298/2	25/06298/3	25/06298/4	25/06298/5
Client Sample No	1	1	1	1	1
Client Sample ID/Depth	STWM16 1.50-1.60m	STWM22 1.70-1.80m	TPM37 0.40-0.80m	TPM36 0.50-1.00m	TPM39 0.50-1.00m
Date Sampled	27/05/25	28/05/25	22/05/25	20/05/25	26/05/25
PAH-16MS plus Coronene	✓	✓	✓	✓	✓
VPHCWG	✓	✓	✓	✓	✓
Total Organic Carbon	✓	✓	✓	✓	✓
Cyanide (total)	✓	✓	✓	✓	✓
Sulphate (acid soluble)	✓	✓	✓	✓	✓
EPHCWG (GCxGC) (upto C40)			✓	✓	
Mineral Oil (>C10-C40)			✓	✓	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/06298/1	25/06298/2	25/06298/3	25/06298/4	25/06298/5
Client Sample No	1	1	1	1	1
Client Sample ID/Depth	STWM16 1.50-1.60m	STWM22 1.70-1.80m	TPM37 0.40-0.80m	TPM36 0.50-1.00m	TPM39 0.50-1.00m
Date Sampled	27/05/25	28/05/25	22/05/25	20/05/25	26/05/25
A-T-004s	20/06/2025	20/06/2025	20/06/2025	20/06/2025	20/06/2025
A-T-007s	25/06/2025	25/06/2025	25/06/2025	25/06/2025	25/06/2025
A-T-019s	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025
A-T-022s	26/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025
A-T-024s	30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
A-T-025w	02/07/2025	02/07/2025	02/07/2025	02/07/2025	02/07/2025
A-T-026w	02/07/2025	02/07/2025	02/07/2025	02/07/2025	02/07/2025
A-T-026w (F)	02/07/2025	02/07/2025	02/07/2025	02/07/2025	02/07/2025
A-T-027s	30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
A-T-028s	30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
A-T-029s	30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
A-T-031s	30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
A-T-031w	02/07/2025	02/07/2025	02/07/2025	02/07/2025	02/07/2025
A-T-032s	30/06/2025	30/06/2025	30/06/2025	30/06/2025	01/07/2025
A-T-032w	02/07/2025	02/07/2025	02/07/2025	02/07/2025	02/07/2025
A-T-033w	26/06/2025	26/06/2025	26/06/2025	26/06/2025	26/06/2025
A-T-037w	02/07/2025	02/07/2025	02/07/2025	02/07/2025	02/07/2025
A-T-040s	30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
A-T-042sTCN	25/06/2025	25/06/2025	25/06/2025	25/06/2025	25/06/2025
A-T-043-s	24/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025
A-T-044	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025
A-T-045	19/06/2025	19/06/2025	19/06/2025	19/06/2025	19/06/2025
A-T-050s	20/06/2025	20/06/2025	20/06/2025	20/06/2025	20/06/2025
A-T-050w	02/07/2025	02/07/2025	02/07/2025	02/07/2025	02/07/2025
A-T-055s	23/06/2025	23/06/2025	23/06/2025	23/06/2025	23/06/2025
Calc	30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
Calc-As Recd	26/06/2025	24/06/2025	24/06/2025	24/06/2025	24/06/2025
Calc-no stones	02/07/2025	02/07/2025	02/07/2025	02/07/2025	02/07/2025
Probe (w)	02/07/2025	02/07/2025	02/07/2025	02/07/2025	02/07/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105
Project Name	Lot 1, Lough Talt
Schedule ID	2024SO105_total

Irish Water		
11 November 2025		
From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
TP-M80	0.40	0.70	ES		17/06/25										1	EnvLab 25/06993/1
TP-M66	0.50	0.60	ES	3	12/06/25										1	EnvLab 25/06993/2
ST-TEL44	0.50	0.60	ES		16/06/25										1	EnvLab 25/06993/3
TP-M92	0.40	0.80	ES		23/06/25										1	EnvLab 25/06993/4
BH-M24	1.00		ES		17/06/25										1	EnvLab 25/06993/5
ST-WM-83	0.50	0.60	ES		09/06/25										1	EnvLab 25/06993/6

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

Certificate of Analysis

Report No.: **25-06023-1**

Issue No.: **1**
Date of Issue **28/08/2025**

Customer Details:	Envirolab Ltd, 7 - 8 Sandpits Business Park, Mottram Road, Hyde, Greater Manchester, SK14 3AR, United Kingdom
Customer Contact:	Maleyka Owen-Agjef
Customer Order No.:	P0757344
Customer Reference:	Not Supplied
Quotation Reference:	Q25-03486 (Issue: 4)
Description:	6 geo samples
Date Received:	08/07/2025
Date Started:	21/07/2025
Date Completed:	27/08/2025
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **Marco Lattughi, Operational Director**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

Testing performed by RPS Environmental Management Limited, a Tetra Tech Company. Registered in England No. 01756175.
13 St Martins Way, Bedford, Bedfordshire, MK42 0LF. T +44 1462 480 400
Terms and conditions apply - copy on request

Results Summary

Report No.: 25-06023-1

Customer Reference: Not Supplied

Customer Order No: P0757344

Customer Sample No	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6
Customer Sample ID	TPM80	TPM66	STTEL44	TPM92	BHM24	STWM83
RPS Sample No	104477	104478	104479	104480	104481	104482
Sample Type	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**
Sample Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date	17/06/2025	17/06/2025	17/06/2025	17/06/2025	17/06/2025	17/06/2025

Determinand	CAS No	Codes	SOP	RL	Units						
methyl acrylate	96-33-3	N	G132	0.1	mg/kg AR	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Deviating Samples

Report No.: 25-06023-1

Customer Reference: Not Supplied

Customer Order No: P0757344

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
104477	25/06993/1	TPM80	17/06/2025	100 mL amber glass jar	No	
104478	25/06993/2	TPM66	17/06/2025	100 mL amber glass jar	No	
104479	25/06993/3	STTEL44	17/06/2025	100 mL amber glass jar	No	
104480	25/06993/4	TPM92	17/06/2025	100 mL amber glass jar	No	
104481	25/06993/5	BHM24	17/06/2025	100 mL amber glass jar	No	
104482	25/06993/6	STWM83	17/06/2025	100 mL amber glass jar	No	

Type	Matrix Code	Description
Food	CEREALPROD	Cereals, grains & products
Food	DRIEDFRUIT	Dried fruits
Food	FRIEDBAKED	Fried or baked food
Food	LEGUME	Legumes
Food	MEAT	Meat
Food	POWDERED	Powdered food
Food	PULSE	Pulses (dried legumes)
Food	VEGETABLES	Vegetables
Gas	TDTUBE	TD Tube
Gas	TENAX	Tenax Tube
Gas	TUBE	Tube
Gas	VAPOUR	Gas
Geological	SED_MAR	Marine Sediment
Geological	SED_RIV	River Sediment
Geological	SLUDG_SOL	Sludge (solid only)
Geological	SOIL	Soil
Liquid	BEVERAGE	Beverage
Liquid	BLOOD	Blood
Liquid	CONDENSATE	Condensate
Liquid	FOAM_LIQ	Liquid foam
Liquid	FORMULATN	Formula
Liquid	LEACHATE	Leachate
Liquid	OIL/GREASE	Oil or grease
Liquid	SLUDG_LIQ	Sludge (liquid only)
Liquid	SOLVENT	Solvent
Liquid	URINE	Urine
Sludge	SLUDG_WHL	Sludge for bulk route
Solid	BADGE	Badge
Solid	BEDDING	Bedding
Solid	BIOTA	Biota (general)
Solid	BIOTA_F	Biota (fish)
Solid	BIOTA_SF	Biota (shellfish)
Solid	CONSTRCTN	Construction materials
Solid	FABRIC	Fabrics & furnishing materials
Solid	FEED	Animal feed
Solid	FERTILISER	Fertiliser
Solid	FILTER	Filter
Solid	FOAM	Solid foam material
Solid	LATEX	Latex/Rubber
Solid	PACKAGING	Packaging material
Solid	PAPER	Paper
Solid	PLANT	Plant (vegetation)
Solid	POWDER	Powder
Solid	SWAB	Swab
Water	BAL	Ballast Water
Water	BIL	Bilge Water
Water	DW	Drinking Water
Water	EFFLUENT	Effluent
Water	GW	Ground Water
Water	INFLUENT	Influent
Water	MINEW	Mine Water
Water	MW	Mineral Water
Water	SALTW	Salt Water
Water	SW	Surface Water
Water	TW	Tap Water
Water	W	Unknown Water

Key Code	Description
N	Not Accredited Test
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
UF	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
O	Marine Management Organisation (MMO) Validated
SN	Subcontracted to approved laboratory not accredited for the test
SU	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SIN	Subcontracted to internal RPS Group laboratory not accredited for the test
SIU	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
SIM	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
*	Modified standard method
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis
L (in results)	Result is outside normal limits

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 week from the issue date of this report
Waters	1 week from the issue date of this report
Other Liquids	1 week from the issue date of this report
Solids / Soils	1 week from the issue date of this report
Sediments	1 week from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

Soil Typing	Description
Type 1	Clay - Brown
Type 2	Clay - Grey/Black
Type 3	Sand
Type 4	Top Soil (Standard)
Type 5	Top Soil (High Peat)
Type 6	Made Ground (>50% Clay)
Type 7	Made Ground (>50% Sand)
Type 8	Made Ground (>50% Top Soil)
Type X	Other

Dev code	Description
D	No sampling date provided.
T	No sampling time provided.
Z	Temperature of samples exceeded in transit/storage.
V	Excessive headspace for volatile determinands.
P	Sample submitted without required preservative(s).
C	Incorrect container.
H	Holding time exceeded (sampling to extraction).
X	Holding time exceeded (sampling to receipt).

Eurofins Chemtest Ltd
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.com

Final Report

Report No.: 25-21791-1

Initial Date of Issue: 08-Jul-2025

Re-Issue Details:

Client *Envirolab*

Client Address: *Sandpits Business Park*
Mottram Road
Hyde
Cheshire
SK14 3AR

Contact(s): *Subcon*

Project *25/06993 2024SO105*

Quotation No.: *Q25-38220* **Date Received:** 02-Jul-2025

Order No.: P0757343 **Date Instructed:** 02-Jul-2025

No. of Samples: *6*

Turnaround (Wkdays): 5 **Results Due:** 08-Jul-2025

Date Approved: 08-Jul-2025

Approved By:



Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Soil

Project: 25/06993 2024SO105

Client: Envirolab			**Chemtest Job No.:**			25-21791	25-21791	25-21791	25-21791	25-21791	25-21791
Quotation No.: Q25-38220			**Chemtest Sample ID.:**			1994025	1994026	1994027	1994028	1994029	1994030
Order No.: P0757343			*Client Sample Ref.:*			*25/06993/1 TPM80*	*25/06993/2 TPM66*	*25/06993/3 STTEL44*	*25/06993/4 TPM92*	*25/06993/5 BHM24*	*25/06993/6 STWM83*
			Client Sample ID.:			*1*	*1*	*1*	*1*	*1*	*1*
			Sample Type:			*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*	*SOIL*
			Top Depth (m):			*0.40*	*0.50*	*0.50*	*0.40*	*0.50*	*0.80*
			Bottom Depth (m):			*0.70*	*0.60*	*0.60*	*0.80*	*1.00*	*0.90*
			Date Sampled:			*17-Jun-2025*	*17-Jun-2025*	*17-Jun-2025*	*17-Jun-2025*	*17-Jun-2025*	*17-Jun-2025*
Determinand	**HWOL Code**	**Accred.**	**SOP**	**Units**	**LOD**						
Moisture		N	2030	%	0.020	22	6.3	12	5.7	30	1.1
Soil Colour		N	2030		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2030		N/A	Roots	Stones	Stones	Stones and Roots	Roots	Stones and Roots
Soil Texture		N	2030		N/A	Loam	Loam	Loam	Loam	Loam	Loam
Acrylonitrile		N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request.The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Chemtest Sample ID	*Clients Sample Ref:*	*Clients Sample ID:*	*Clients Reference:*	*Sampled Date:*	Deviation Code(s):	Containers Received:
1994025	*25/06993/1 TPM80*	*1*		*17-Jun-2025*	B	Amber Glass 60ml
1994026	*25/06993/2 TPM66*	*1*		*17-Jun-2025*	B	Amber Glass 60ml
1994027	*25/06993/3 STTEL44*	*1*		*17-Jun-2025*	B	Amber Glass 60ml
1994028	*25/06993/4 TPM92*	*1*		*17-Jun-2025*	B	Amber Glass 60ml
1994029	*25/06993/5 BHM24*	*1*		*17-Jun-2025*	B	Amber Glass 60ml
1994030	*25/06993/6 STWM83*	*1*		*17-Jun-2025*	B	Amber Glass 60ml

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	

Report Information

Key	
U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection
Text example	All items indicated in italic font represent customer-supplied information that may not be independently verified by the laboratory

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at ≤ 30°C prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

Final Test Report

Envirolab Job Number:	25/06993
Issue Number:	1
Date:	16-Jul-25

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager:	Damien O'Reilly/IDL Lab
Project Name:	Lough Talt - 2024SO105
Project Ref:	2024SO105
Order No:	PKB21191
Date Samples Received:	30-Jun-25
Date Instructions Received:	30-Jun-25
Date Analysis Completed:	16-Jul-25

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Richard Wong
Client Manager

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/06993/1				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM80				
Depth to Top				0.4				
Depth to Bottom				0.70				
Date Sampled				17/06/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.24**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.94**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**14**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.004	**0.040**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.015	**0.150**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	0.1	**1.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	33	**330**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.2				
Conductivity (µS/cm)	A-T-037	N	N	66				
Mass Sample (kg)				0.251				
Dry Matter (%)	A-T-044	N	N	69.7				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/06993/2				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM66				
Depth to Top				0.5				
Depth to Bottom				0.60				
Date Sampled				12/06/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.99**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.73**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.007	**0.070**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.006	**0.060**	4	50	200
Chloride	A-T-026	N	N	4	**36**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	36	**360**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.6				
Conductivity (µS/cm)	A-T-037	N	N	72				
Mass Sample (kg)				0.187				
Dry Matter (%)	A-T-044	N	N	93.5				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/06993/3				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				STTEL44				
Depth to Top				0.5				
Depth to Bottom				0.60				
Date Sampled				16/06/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.91**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.9**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**70**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.016	**0.160**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.005	**0.050**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.008	**0.080**	4	50	200
Chloride	A-T-026	N	N	21	**212**	800	15000	25000
Fluoride	A-T-026	N	N	0.7	**7.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	267	**2669**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	306	**3060**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.1				
Conductivity (µS/cm)	A-T-037	N	N	613				
Mass Sample (kg)				0.203				
Dry Matter (%)	A-T-044	N	N	86.1				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/06993/4				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM92				
Depth to Top				0.4				
Depth to Bottom				0.80				
Date Sampled				20/06/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.10**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**7.47**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.017	**0.170**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.014	**0.140**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.023	**0.230**	4	50	200
Chloride	A-T-026	N	N	139	**1390**	800	15000	25000
Fluoride	A-T-026	N	N	0.3	**3.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	101	**1006**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	422	**4220**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.9				
Conductivity (µS/cm)	A-T-037	N	N	844				
Mass Sample (kg)				0.631				
Dry Matter (%)	A-T-044	N	N	27.7				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/06993/5				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				BHM24				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				18/06/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**4.50**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**8.57**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.007	**0.070**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	0.002	**0.020**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	0.002	**0.020**	0.4	10	40
Lead	A-T-025	N	N	0.007	**0.070**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.125	**1.250**	4	50	200
Chloride	A-T-026	N	N	35	**346**	800	15000	25000
Fluoride	A-T-026	N	N	0.2	**2.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	8	**82**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	81	**810**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	64.90	**649**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	4.6				
Conductivity (µS/cm)	A-T-037	N	N	161				
Mass Sample (kg)				1.296				
Dry Matter (%)	A-T-044	N	N	13.5				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/06993/6				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				STWM83				
Depth to Top				0.8				
Depth to Bottom				0.90				
Date Sampled				09/06/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**9.44**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.67**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**37**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.010	**0.100**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.002	**0.020**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.001	**0.010**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.022	**0.220**	4	50	200
Chloride	A-T-026	N	N	3	**28**	800	15000	25000
Fluoride	A-T-026	N	N	0.5	**5.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	15	**153**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	79	**790**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.2				
Conductivity (µS/cm)	A-T-037	N	N	157				
Mass Sample (kg)				0.213				
Dry Matter (%)	A-T-044	N	N	82.1				

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Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/06993
Issue Number: 1 **Date:** 28 August, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: 2024SO105
Order No: PKB21191
Date Samples Received: 30/06/25
Date Instructions Received: 30/06/25
Date Analysis Completed: 28/08/25

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 25/06993

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM80	TPM66	STTEL44	TPM92	BHM24	STWM83				
Depth to Top	0.40	0.50	0.50	0.40	0.50	0.80				
Depth To Bottom	0.70	0.60	0.60	0.80	1.00	0.90				
Date Sampled	17-Jun-25	12-Jun-25	16-Jun-25	20-Jun-25	18-Jun-25	09-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	4A	4A	6AE	6AE	4A				
% Moisture at <40C$_A$	19.4	6.5	12.3	62.5	71.3	14.0		% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		% w/w	0.1	A-T-044
pH$_D^{M\#}$	7.24	8.99	7.91	7.10	4.50	9.44		pH	0.01	A-T-031s
Sulphate (acid soluble)$_D^{M\#}$	400	<200	2700	4900	410	690		mg/kg	200	A-T-028s
Cyanide (total)$_A^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		mg/kg	0.2	A-T-050s
Sulphide$_A$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-043-s
Sulphur (elemental)$_D^{M\#}$	7	<5	<5	<5	<5	<5		mg/kg	5	A-T-029s
Total Organic Carbon$_D^{M\#}$	2.94	0.73	1.90	7.47	8.57	2.67		% w/w	0.08	A-T-032s
Antimony$_D$	<5	<5	<5	<5	<5	<5		mg/kg	5	A-T-024s
Arsenic$_D^{M\#}$	<1	<1	3	<1	<1	<1		mg/kg	1	A-T-024s
Barium$_D^{\#}$	15	14	20	18	8	21		mg/kg	3	A-T-024s
Boron (water soluble)$_D^{M\#}$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		mg/kg	1	A-T-027s
Cadmium$_D$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		mg/kg	1	A-T-024s
Copper$_D^{M\#}$	10	5	13	5	4	8		mg/kg	1	A-T-024s
Chromium$_D^{M\#}$	10	7	8	4	5	5		mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-040s
Chromium (trivalent)	10	7	8	4	5	5		mg/kg	1	Calc
Lead$_D^{M\#}$	11	2	34	2	5	10		mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17		mg/kg	0.17	A-T-024s
Molybdenum$_D^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Nickel$_D^{M\#}$	11	10	22	4	3	10		mg/kg	1	A-T-024s
Selenium$_D^{M\#}$	<1	<1	<1	<1	<1	<1		mg/kg	1	A-T-024s
Zinc$_D^{M\#}$	35	21	26	9	14	37		mg/kg	1	A-T-024s
Mineral Oil (>C10-C40)$_A$	14	<10	70	<10	<10	37		mg/kg	10	A-T-007s
Methyl Acrylate$_A$	Appended	Appended	Appended	Appended	Appended	Appended		mg/kg	0.1	Subcon RPS MH
Acrylonitrile$_A$	Appended	Appended	Appended	Appended	Appended	Appended		µg/kg	10	Subcon Chemtest

Envirolab Job Number: 25/06993

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM80	TPM66	STTEL44	TPM92	BHM24	STWM83				
Depth to Top	0.40	0.50	0.50	0.40	0.50	0.80				
Depth To Bottom	0.70	0.60	0.60	0.80	1.00	0.90				
Date Sampled	17-Jun-25	12-Jun-25	16-Jun-25	20-Jun-25	18-Jun-25	09-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	4A	4A	6AE	6AE	4A				
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD	NAD	NAD	NAD				A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-	-				A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-	-				A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A	N/A	N/A	N/A				A-T-045

Envirolab Job Number: 25/06993

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM80	TPM66	STTEL44	TPM92	BHM24	STWM83				
Depth to Top	0.40	0.50	0.50	0.40	0.50	0.80				
Depth To Bottom	0.70	0.60	0.60	0.80	1.00	0.90				
Date Sampled	17-Jun-25	12-Jun-25	16-Jun-25	20-Jun-25	18-Jun-25	09-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	4A	4A	6AE	6AE	4A				
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	0.02	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	0.04	<0.02	<0.02	<0.02	<0.02	<0.02		mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	0.67	<0.04	<0.04	<0.04	<0.04	0.21		mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	1.12	<0.04	0.14	<0.04	<0.04	0.45		mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	1.17	<0.05	0.13	<0.05	<0.05	0.48		mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	0.92	<0.05	0.15	<0.05	<0.05	0.52		mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	0.40	<0.07	<0.07	<0.07	<0.07	0.14		mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	0.87	<0.06	0.08	<0.06	<0.06	0.33		mg/kg	0.06	A-T-019s
Coronene$_A$	0.20	<0.01	0.03	<0.01	<0.01	0.14		mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	0.15	<0.04	<0.04	<0.04	<0.04	0.07		mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	1.22	<0.08	<0.08	<0.08	<0.08	0.34		mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	0.91	<0.03	0.13	<0.03	<0.03	0.42		mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	0.15	<0.03	<0.03	<0.03	<0.03	0.05		mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	1.40	<0.07	0.09	<0.07	<0.07	0.35		mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	9.24	<0.08	0.75	<0.08	<0.08	3.50		mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/06993

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM80	TPM66	STTEL44	TPM92	BHM24	STWM83				
Depth to Top	0.40	0.50	0.50	0.40	0.50	0.80				
Depth To Bottom	0.70	0.60	0.60	0.80	1.00	0.90				
Date Sampled	17-Jun-25	12-Jun-25	16-Jun-25	20-Jun-25	18-Jun-25	09-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	4A	4A	6AE	6AE	4A				
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002		mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006		mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7$_A^{M\#}$	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007		mg/kg	0.003	A-T-004s

Envirolab Job Number: 25/06993

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM80	TPM66	STTEL44	TPM92	BHM24	STWM83				
Depth to Top	0.40	0.50	0.50	0.40	0.50	0.80				
Depth To Bottom	0.70	0.60	0.60	0.80	1.00	0.90				
Date Sampled	17-Jun-25	12-Jun-25	16-Jun-25	20-Jun-25	18-Jun-25	09-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	4A	4A	6AE	6AE	4A				
Envirolab WAC A (Leachate only) 10:1										
Mass Sample (1 stage WAC)	0.217	0.187	0.200	0.467	0.610	0.204		Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	80.6	93.5	87.7	37.5	28.7	86.0		% w/w	0.1	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1	<1	<1	<1	<5	<1		mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1	<1	<1	<1	<5	<1		mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1	<1	1	<1	<5	<1		mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	2	<1	3	<1	28	2		mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	29	<1	25	53	216	37		mg/kg	1	A-T-055s
Total Aliphatics$_A$	57	<1	56	61	282	65		mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	<1	<1	<1	<1	<5	<1		mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1	<1	<1	<1	<5	<1		mg/kg	1	A-T-055s
Aro >C12-C16$_A$	2	<1	2	3	<5	2		mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	17	<1	5	5	42	8		mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	118	<1	23	24	87	47		mg/kg	1	A-T-055s
Aro >C35-C40$_A$	20	<1	22	13	21	19		mg/kg	1	A-T-055s
Total Aromatics$_A$	158	<1	51	45	150	76		mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	215	<1	107	107	432	141		mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	A-T-022s
Ali >C35-C40$_A$	26	<1	26	8	38	26		mg/kg	1	A-T-055s

Envirolab Job Number: 25/06993

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM80	TPM66	STTEL44	TPM92	BHM24	STWM83				
Depth to Top	0.40	0.50	0.50	0.40	0.50	0.80				
Depth To Bottom	0.70	0.60	0.60	0.80	1.00	0.90				
Date Sampled	17-Jun-25	12-Jun-25	16-Jun-25	20-Jun-25	18-Jun-25	09-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	4A	4A	6AE	6AE	4A				
Ammoniacal nitrogen as N (10:1 leachable)$_A$	0.11	<0.05	<0.05	0.11	1.17	0.14		mg/l	0.05	A-T-033w

Envirolab Job Number: 25/06993

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM80	TPM66	STTEL44	TPM92	BHM24	STWM83				
Depth to Top	0.40	0.50	0.50	0.40	0.50	0.80				
Depth To Bottom	0.70	0.60	0.60	0.80	1.00	0.90				
Date Sampled	17-Jun-25	12-Jun-25	16-Jun-25	20-Jun-25	18-Jun-25	09-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	4A	4A	6AE	6AE	4A				
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*	*	*	*	*	*				A-T-001
pH (10:1 leachable)$_A$	7.15	8.62	7.14	7.86	4.64	7.21		pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	66	72	613	844	161	157		µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	33	36	306	422	81	79		mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	<1.00	3.57	21.18	139.00	34.64	2.84		mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	0.12	0.37	0.66	0.26	0.20	0.45		mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	<1.00	<1.00	266.88	100.57	8.16	15.27		mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	0.01	0.01	<0.01	<0.01	<0.01	<0.01		mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	<2.0	<2.0	<2.0	<2.0	64.9	<2.0		mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.004	0.007	0.016	0.017	0.007	0.010		mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004		mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	0.002	<0.001		mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	0.007	0.001		mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	<0.001	<0.001	0.005	0.014	<0.001	0.002		mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	<0.002	<0.002	<0.002	<0.002	0.002	<0.002		mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.015	0.006	0.008	0.023	0.125	0.022		mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.04	0.07	0.16	0.17	0.07	0.10		mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	<10	36	212	1390	346	28		mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	0.02	<0.01		mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		mg/kg	0.04	Calc-no stones
DOC (10:1 cumulative mg/kg)	<200	<200	<200	<200	649	<200		mg/kg	200	Calc-no stones
Fluoride (10:1 cumulative mg/kg)	1	4	7	3	2	5		mg/kg	1	Calc-no stones

Envirolab Job Number: 25/06993

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6		Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	TPM80	TPM66	STTEL44	TPM92	BHM24	STWM83				
Depth to Top	0.40	0.50	0.50	0.40	0.50	0.80				
Depth To Bottom	0.70	0.60	0.60	0.80	1.00	0.90				
Date Sampled	17-Jun-25	12-Jun-25	16-Jun-25	20-Jun-25	18-Jun-25	09-Jun-25				
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES				
Sample Matrix Code	6AE	4A	4A	6AE	6AE	4A				
Lead (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	0.07	0.01		mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	<0.01	<0.01	0.05	0.14	<0.01	0.02		mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	<0.02	<0.02	<0.02	<0.02	0.02	<0.02		mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	0.1	0.1	<0.1	<0.1	<0.1	<0.1		mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	<10	<10	2669	1006	82	153		mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	330	360	3060	4220	810	790		mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.15	0.06	0.08	0.23	1.25	0.22		mg/kg	0.02	Calc-no stones

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/06993

Date Received: 30/06/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 20.8

Clients Project No: 2024SO105

Lab Sample ID	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6
Client Sample No	1	1	1	1	1	1
Client Sample ID/Depth	TPM80 0.40-0.70m	TPM66 0.50-0.60m	STTEL44 0.50-0.60m	TPM92 0.40-0.80m	BHM24 0.50-1.00m	STWM83 0.80-0.90m
Date Sampled	17/06/25	12/06/25	16/06/25	20/06/25	18/06/25	09/06/25
Deviation Code						
F	✓	✓	✓	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6
Client Sample No	1	1	1	1	1	1
Client Sample ID/Depth	TPM80 0.40-0.70m	TPM66 0.50-0.60m	STTEL44 0.50-0.60m	TPM92 0.40-0.80m	BHM24 0.50-1.00m	STWM83 0.80-0.90m
Date Sampled	17/06/25	12/06/25	16/06/25	20/06/25	18/06/25	09/06/25
PAH-16MS plus Coronene	✓	✓	✓	✓	✓	✓
VPHCWG	✓	✓	✓	✓	✓	✓
Cyanide (total)	✓	✓	✓	✓	✓	✓
Speciated PCB-EC7						✓
EPHCWG (GCxGC) (upto C40)						✓
Total Organic Carbon						✓
Sulphate (acid soluble)						✓
Mineral Oil (>C10-C40)						✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3,

ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/06993/1	25/06993/2	25/06993/3	25/06993/4	25/06993/5	25/06993/6
Client Sample No	1	1	1	1	1	1
Client Sample ID/Depth	TPM80 0.40-0.70m	TPM66 0.50-0.60m	STTEL44 0.50-0.60m	TPM92 0.40-0.80m	BHM24 0.50-1.00m	STWM83 0.80-0.90m
Date Sampled	17/06/25	12/06/25	16/06/25	20/06/25	18/06/25	09/06/25
A-T-004s	14/07/2025	14/07/2025	14/07/2025	14/07/2025	14/07/2025	14/07/2025
A-T-007s	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025
A-T-019s	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025
A-T-022s	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025
A-T-024s	10/07/2025	10/07/2025	10/07/2025	10/07/2025	10/07/2025	10/07/2025
A-T-025w	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025
A-T-026w	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025
A-T-026w (F)	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025
A-T-027s	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025
A-T-028s	14/07/2025	14/07/2025	14/07/2025	14/07/2025	14/07/2025	14/07/2025
A-T-029s	10/07/2025	10/07/2025	10/07/2025	10/07/2025	10/07/2025	10/07/2025
A-T-031s	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025	16/07/2025
A-T-031w	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025
A-T-032s	10/07/2025	10/07/2025	10/07/2025	10/07/2025	10/07/2025	14/07/2025
A-T-032w	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025
A-T-033w	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025
A-T-037w	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025
A-T-040s	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025
A-T-042sTCN	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025
A-T-043-s	10/07/2025	10/07/2025	10/07/2025	10/07/2025	10/07/2025	10/07/2025
A-T-044	23/07/2025	23/07/2025	23/07/2025	23/07/2025	23/07/2025	23/07/2025
A-T-045	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025	03/07/2025
A-T-050s	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025
A-T-050w	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025
A-T-055s	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025
Calc	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025
Calc-As Recd	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025	11/07/2025
Calc-no stones	23/07/2025	23/07/2025	23/07/2025	23/07/2025	23/07/2025	23/07/2025
Probe (w)	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025	16/07/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105		Irish Water	
Project Name	Lot 1, Lough Talt		11 November 2025	
Schedule ID	2024SO105_total		From Feb - Oct 2025	

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
BH-M03	**0.00**	1.00	B	1	08/05/25		1									EnvLab 25/07471/1
BH-M03	2.00	2.50	B	7	08/05/25				1			1	1			EnvLab 25/07471/2
BH-M03A	**0.00**	1.00	B	1	07/05/25		1									EnvLab 25/07471/3
BH-M03A	1.00	1.50	B	4	07/05/25				1			1	1			EnvLab 25/07471/4
BH-M04	1.00	1.50	B	4	12/05/25				1			1	1			EnvLab 25/07471/5
BH-M04	2.00	2.50	B	7	12/05/25				1			1	1			EnvLab 25/07471/6
BH-M04A	1.00	1.50	B	4	09/05/25				1			1	1			EnvLab 25/07471/7
BH-M04A	2.00		D	5	09/05/25				1			1	1			EnvLab 25/07471/8
BH-M04A	3.00	3.50	B	13	09/05/25				1			1	1			EnvLab 25/07471/9
TP-M19	2.50	3.00	D	6	22/04/25		1									EnvLab 25/07471/10
TP-M20	1.50	2.00	D	4	22/04/25		1									EnvLab 25/07471/11
TP-M20	2.50	3.00	D	6	22/04/25				1			1	1			EnvLab 25/07471/12
TP-M21	1.50	2.00	D	4	25/04/25		1									EnvLab 25/07471/13
TP-M21	2.80	3.20	D	6	25/04/25				1			1	1			EnvLab 25/07471/14
TP-M22	2.50	3.00	D	4	25/04/25		1									EnvLab 25/07471/15
TP-M23	0.50	1.00	D	2	30/04/25		1									EnvLab 25/07471/16
TP-M23	2.00	2.50	D	4	30/04/25				1			1	1			EnvLab 25/07471/17
TP-M24	1.50	2.00	D	4	30/04/25		1									EnvLab 25/07471/18
TP-M25	2.00	2.50	D	4	06/05/25		1									EnvLab 25/07471/19
TP-M26	2.00	2.50	D	4	06/05/25		1									EnvLab 25/07471/20
TP-M27	1.50	1.90	D	4	02/05/25				1			1	1			EnvLab 25/07471/21
TP-M28	1.50	2.00	D	4	02/05/25				1			1	1			EnvLab 25/07471/22
TP-M29	1.50	2.00	D	4	07/05/25				1			1	1			EnvLab 25/07471/23
TP-M30A	1.50	2.00	D	4	07/05/25		1									EnvLab 25/07471/24
TP-M30A	3.00	3.30	D	6	07/05/25				1			1	1			EnvLab 25/07471/25
TP-M30B	2.50	3.00	D	4	08/05/25		1									EnvLab 25/07471/26

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/07471
Issue Number: 1 **Date:** 28 July, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly
Project Name: Lough Talt - 2024SO105
Project Ref: 2024SO105
Order No: PKB21191
Date Samples Received: 09/07/25
Date Instructions Received: 11/07/25
Date Analysis Completed: 28/07/25

Approved by:



Richard Wong
Client Manager

Envirolab Job Number: 25/07471

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/07471/1	25/07471/2	25/07471/3	25/07471/4	25/07471/5	25/07471/6	25/07471/7	Units	Limit of Detection	Method ref
Client Sample No	1	7	1	4	4	7	4			
Client Sample ID	BH-M03	BH-M03	BH-M03A	BH-M03A	BH-M04	BH-M04	BH-M04A			
Depth to Top	0.00	2.00	0.00	1.00	1.00	2.00	1.00			
Depth To Bottom	1.00	2.50	1.00	1.50	1.50	2.50	1.50			
Date Sampled	08-May-25	08-May-25	07-May-25	07-May-25	12-May-25	12-May-25	09-May-25			
Sample Type	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D			
Sample Matrix Code	6A	5A	6AE	5AE	5AE	5A	5A			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	-	7.00	-	7.45	7.14	7.43	7.68	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	-	28	-	18	43	21	<20	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	-	2600	-	750	2200	1100	450	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	47.7	-	19.5	-	-	-	-	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/07471

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/07471/8	25/07471/9	25/07471/10	25/07471/11	25/07471/12	25/07471/13	25/07471/14	Units	Limit of Detection	Method ref
Client Sample No	5	13	6	4	6	4	6			
Client Sample ID	BH-M04A	BH-M04A	TP-M19	TP-M20	TP-M20	TP-M21	TP-M21			
Depth to Top	2.00	3.00	2.50	1.50	2.50	1.50	2.80			
Depth To Bottom		3.50	3.00	2.00	3.00	2.00	3.20			
Date Sampled	09-May-25	09-May-25	22-Apr-25	22-Apr-25	22-Apr-25	25-Apr-25	25-Apr-25			
Sample Type	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOLID			
Sample Matrix Code	5A	5A	6AE	6AE	5A	6AE	7			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	8.19	7.55	-	-	6.88	-	7.76^U	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	<10	<10	-	-	138	-	<40^U	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	610	1200	-	-	4300	-	1000^U	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	-	-	84.7	69.7	-	78.6	-	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/07471

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/07471/15	25/07471/16	25/07471/17	25/07471/18	25/07471/19	25/07471/20	25/07471/21	Units	Limit of Detection	Method ref
Client Sample No	4	2	4	4	4	4	4			
Client Sample ID	TP-M22	TP-M23	TP-M23	TP-M24	TP-M25	TP-M26	TP-M27			
Depth to Top	2.50	0.50	2.00	1.50	2.00	2.00	1.50			
Depth To Bottom	3.00	1.00	2.50	2.00	2.50	2.50	1.90			
Date Sampled	25-Apr-25	30-Apr-25	30-Apr-25	30-Apr-25	06-May-25	06-May-25	02-May-25			
Sample Type	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D			
Sample Matrix Code	6AE	6A	5A	6AE	6A	6A	4A			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	-	-	7.56	-	-	-	8.08	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	-	-	15	-	-	-	17	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	-	-	890	-	-	-	450	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	83.4	13	-	78.9	32.4	42.7	-	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/07471

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/07471/22	25/07471/23	25/07471/24	25/07471/25	25/07471/26			Units	Limit of Detection	Method ref
Client Sample No	4	4	4	6	4					
Client Sample ID	TP-M28	TP-M29	TP-M30A	TP-M30A	TP-M30B					
Depth to Top	1.50	1.50	1.50	3.00	2.50					
Depth To Bottom	2.00	2.00	2.00	3.30	3.00					
Date Sampled	02-May-25	07-May-25	07-May-25	07-May-25	08-May-25					
Sample Type	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D					
Sample Matrix Code	6A	5A	6A	6A	5A					
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1			% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	6.99	8.09	-	4.92	-			pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D$$^{M\#}$	163	41	-	80	-			mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D$$^{M\#}$	1400	450	-	4400	-			mg/kg	200	A-T-028s
Organic Matter$_D$$^{M\#}$	-	-	17.7	-	1.10			% w/w	0.14	A-T-032s

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/07471

Date Received: 11/07/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 16.1, 16.7

Clients Project No: 2024SO105

Lab Sample ID	25/07471/1	25/07471/2	25/07471/3	25/07471/4	25/07471/5	25/07471/6	25/07471/7	25/07471/8	25/07471/9	25/07471/10	25/07471/11	25/07471/12
Client Sample No	1	7	1	4	4	7	4	5	13	6	4	6
Client Sample ID/Depth	BH-M03 0.00-1.00m	BH-M03 2.00-2.50m	BH-M03A 0.00-1.00m	BH-M03A 1.00-1.50m	BH-M04 1.00-1.50m	BH-M04 2.00-2.50m	BH-M04A 1.00-1.50m	BH-M04A 2.00m	BH-M04A 3.00-3.50m	TP-M19 2.50-3.00m	TP-M20 1.50-2.00m	TP-M20 2.50-3.00m
Date Sampled	08/05/25	08/05/25	07/05/25	07/05/25	12/05/25	12/05/25	09/05/25	09/05/25	09/05/25	22/04/25	22/04/25	22/04/25
Deviation Code												
F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Lab Sample ID	25/07471/13	25/07471/14	25/07471/15	25/07471/16	25/07471/17	25/07471/18	25/07471/19	25/07471/20	25/07471/21	25/07471/22	25/07471/23	25/07471/24
Client Sample No	4	6	4	2	4	4	4	4	4	4	4	4
Client Sample ID/Depth	TP-M21 1.50-2.00m	TP-M21 2.80-3.20m	TP-M22 2.50-3.00m	TP-M23 0.50-1.00m	TP-M23 2.00-2.50m	TP-M24 1.50-2.00m	TP-M25 2.00-2.50m	TP-M26 2.00-2.50m	TP-M27 1.50-1.90m	TP-M28 1.50-2.00m	TP-M29 1.50-2.00m	TP-M30A 1.50-2.00m
Date Sampled	25/04/25	25/04/25	25/04/25	30/04/25	30/04/25	30/04/25	06/05/25	06/05/25	02/05/25	02/05/25	07/05/25	07/05/25
Deviation Code												
F	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Lab Sample ID	25/07471/25	25/07471/26
Client Sample No	6	4
Client Sample ID/Depth	TP-M30A 3.00-3.30m	TP-M30B 2.50-3.00m
Date Sampled	07/05/25	08/05/25
Deviation Code		
F	✓	✓

Key

F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/07471/1	25/07471/2	25/07471/3	25/07471/4	25/07471/5	25/07471/6	25/07471/7	25/07471/8	25/07471/9	25/07471/10	25/07471/11	25/07471/12

Client Sample No	1	7	1	4	4	7	4	5	13	6	4	6
Client Sample ID/Depth	BH-M03 0.00-1.00m	BH-M03 2.00-2.50m	BH-M03A 0.00-1.00m	BH-M03A 1.00-1.50m	BH-M04 1.00-1.50m	BH-M04 2.00-2.50m	BH-M04A 1.00-1.50m	BH-M04A 2.00m	BH-M04A 3.00-3.50m	TP-M19 2.50-3.00m	TP-M20 1.50-2.00m	TP-M20 2.50-3.00m
Date Sampled	08/05/25	08/05/25	07/05/25	07/05/25	12/05/25	12/05/25	09/05/25	09/05/25	09/05/25	22/04/25	22/04/25	22/04/25
Organic Matter	✓		✓							✓	✓	
Sulphate (acid soluble)		✓		✓	✓	✓	✓	✓	✓			✓
Chloride (water sol 2:1)		✓		✓	✓	✓	✓	✓	✓			✓

Lab Sample ID	25/07471/13	25/07471/14	25/07471/15	25/07471/16	25/07471/17	25/07471/18	25/07471/19	25/07471/20	25/07471/21	25/07471/22	25/07471/23	25/07471/24
Client Sample No	4	6	4	2	4	4	4	4	4	4	4	4
Client Sample ID/Depth	TP-M21 1.50-2.00m	TP-M21 2.80-3.20m	TP-M22 2.50-3.00m	TP-M23 0.50-1.00m	TP-M23 2.00-2.50m	TP-M24 1.50-2.00m	TP-M25 2.00-2.50m	TP-M26 2.00-2.50m	TP-M27 1.50-1.90m	TP-M28 1.50-2.00m	TP-M29 1.50-2.00m	TP-M30A 1.50-2.00m
Date Sampled	25/04/25	25/04/25	25/04/25	30/04/25	30/04/25	30/04/25	06/05/25	06/05/25	02/05/25	02/05/25	07/05/25	07/05/25
Organic Matter	✓		✓	✓		✓	✓	✓				✓
Sulphate (acid soluble)		✓			✓				✓	✓	✓	
Chloride (water sol 2:1)		✓			✓				✓	✓	✓	

Lab Sample ID	25/07471/25	25/07471/26
Client Sample No	6	4
Client Sample ID/Depth	TP-M30A 3.00-3.30m	TP-M30B 2.50-3.00m
Date Sampled	07/05/25	08/05/25
Organic Matter		✓
Sulphate (acid soluble)	✓	
Chloride (water sol 2:1)	✓	

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/07471/1	25/07471/2	25/07471/3	25/07471/4	25/07471/5	25/07471/6	25/07471/7	25/07471/8	25/07471/9	25/07471/10	25/07471/11	25/07471/12
Client Sample No	1	7	1	4	4	7	4	5	13	6	4	6
Client Sample ID/Depth	BH-M03 0.00-1.00m	BH-M03 2.00-2.50m	BH-M03A 0.00-1.00m	BH-M03A 1.00-1.50m	BH-M04 1.00-1.50m	BH-M04 2.00-2.50m	BH-M04A 1.00-1.50m	BH-M04A 2.00m	BH-M04A 3.00-3.50m	TP-M19 2.50-3.00m	TP-M20 1.50-2.00m	TP-M20 2.50-3.00m
Date Sampled	08/05/25	08/05/25	07/05/25	07/05/25	12/05/25	12/05/25	09/05/25	09/05/25	09/05/25	22/04/25	22/04/25	22/04/25
A-T-026s		28/07/2025		28/07/2025	28/07/2025	28/07/2025	28/07/2025	28/07/2025	28/07/2025			28/07/2025
A-T-028s		25/07/2025		25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025			25/07/2025
A-T-031s		25/07/2025		25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025	25/07/2025			25/07/2025
A-T-032s	25/07/2025		25/07/2025							25/07/2025	25/07/2025	
A-T-044	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025

Lab Sample ID	25/07471/13	25/07471/14	25/07471/15	25/07471/16	25/07471/17	25/07471/18	25/07471/19	25/07471/20	25/07471/21	25/07471/22	25/07471/23	25/07471/24
Client Sample No	4	6	4	2	4	4	4	4	4	4	4	4
Client Sample ID/Depth	TP-M21 1.50-2.00m	TP-M21 2.80-3.20m	TP-M22 2.50-3.00m	TP-M23 0.50-1.00m	TP-M23 2.00-2.50m	TP-M24 1.50-2.00m	TP-M25 2.00-2.50m	TP-M26 2.00-2.50m	TP-M27 1.50-1.90m	TP-M28 1.50-2.00m	TP-M29 1.50-2.00m	TP-M30A 1.50-2.00m
Date Sampled	25/04/25	25/04/25	25/04/25	30/04/25	30/04/25	30/04/25	06/05/25	06/05/25	02/05/25	02/05/25	07/05/25	07/05/25
A-T-026s		28/07/2025			28/07/2025				28/07/2025	28/07/2025	28/07/2025	
A-T-028s		25/07/2025			25/07/2025				25/07/2025	25/07/2025	25/07/2025	
A-T-031s		25/07/2025			25/07/2025				25/07/2025	25/07/2025	25/07/2025	
A-T-032s	25/07/2025		25/07/2025	25/07/2025		25/07/2025	25/07/2025	25/07/2025				28/07/2025
A-T-044	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025	24/07/2025

Lab Sample ID	25/07471/25	25/07471/26
Client Sample No	6	4
Client Sample ID/Depth	TP-M30A 3.00-3.30m	TP-M30B 2.50-3.00m
Date Sampled	07/05/25	08/05/25
A-T-026s	28/07/2025	
A-T-028s	25/07/2025	
A-T-031s	25/07/2025	
A-T-032s		28/07/2025
A-T-044	24/07/2025	24/07/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105		Irish Water	
Project Name	Lot 1, Lough Talt		11 November 2025	
Schedule ID	2024SO105_total		From Feb - Oct 2025	

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
BH-M05	1.00	1.50	ES		17/07/25										1	EnvLab 25/08937/1
BH-M06	0.50	1.00	ES		16/07/25										1	EnvLab 25/08937/6
BH-M10	0.50	1.00	ES		08/07/25										1	EnvLab 25/08937/5
BH-M14	0.50	1.00	ES		01/07/25										1	EnvLab 25/08937/4
TP-M98	0.30	0.40	ES	2	24/06/25										1	EnvLab 25/08937/8
BH-M08	0.50	1.00	ES		09/07/25										1	EnvLab 25/08937/7
TP-M83	0.50	1.00	ES		24/06/25										1	EnvLab 25/08937/2
TP-M88	0.40	0.50	ES	2	26/06/25										1	EnvLab 25/08937/3

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT
SUPPLEMENT TO TEST REPORT 25/08937/1

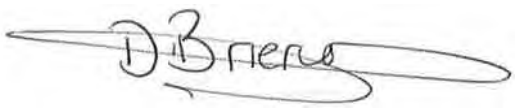
Amendments: Request for Additional Analysis

Envirolab Job Number: 25/08937
Issue Number: 2 **Date:** 10 November, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: 2024SO105
Order No: PKB21191
Date Samples Received: 14/08/25
Date Instructions Received: 14/08/25
Date Analysis Completed: 07/11/25

Approved by:



Danielle Brierley
Client Services Supervisor

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/1	25/08937/2	25/08937/3	25/08937/4	25/08937/5	25/08937/6	25/08937/7	Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1	1			
Client Sample ID	BHM05	TPM83	TPM88	BHM14	BHM10	BHM06	BHM08			
Depth to Top	1.00	0.50	0.40	0.50	0.50	0.50	0.50			
Depth To Bottom	1.50	1.00	0.50	1.00	1.00	1.00	1.00			
Date Sampled	17-Jul-25	24-Jun-25	26-Jun-25	01-Jul-25	08-Jul-25	16-Jul-25	09-Jul-25			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	5A	4A	5AE	6A	6AE	4A	6A			
% Moisture at <40C$_A$	10.6	8.5	48.4	0.2	13.6	3.7	6.3	% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D$[M#]	8.08	8.10	7.97	8.03	8.11	8.48	6.90	pH	0.01	A-T-031s
Sulphate (acid soluble)$_D$[M#]	3300	220	490	1300	920	4400	1500	mg/kg	200	A-T-028s
Cyanide (total)$_A$[M#]	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.6	mg/kg	0.2	A-T-050s
Sulphide$_A$	<5	<5	<5	<5	<5	<5	<5	mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$[M#]	<5	<5	<5	6	<5	<5	<5	mg/kg	5	A-T-029s
Total Organic Carbon$_D$[M#]	1.71	1.75	3.22	2.22	2.28	11.7	13.9	% w/w	0.08	A-T-032s
Antimony$_D$	<5	<5	<5	<5	<5	<5	<5	mg/kg	5	A-T-024s
Arsenic$_D$[M#]	4	<1	<1	<1	3	4	2	mg/kg	1	A-T-024s
Barium$_D$[#]	13	41	13	16	22	14	13	mg/kg	3	A-T-024s
Boron (water soluble)$_D$[M#]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	mg/kg	1	A-T-027s
Cadmium$_D$	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	mg/kg	1	A-T-024s
Copper$_D$[M#]	11	14	7	8	7	10	5	mg/kg	1	A-T-024s
Chromium$_D$[M#]	3	9	7	8	7	5	3	mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-040s
Chromium (trivalent)	3	9	7	8	7	5	3	mg/kg	1	Calc
Lead$_D$[M#]	2	18	10	4	6	3	3	mg/kg	1	A-T-024s
Mercury$_D$	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	mg/kg	0.17	A-T-024s
Molybdenum$_D$[M#]	<1	<1	<1	<1	1	1	<1	mg/kg	1	A-T-024s
Nickel$_D$[M#]	11	8	7	8	14	16	8	mg/kg	1	A-T-024s
Selenium$_D$[M#]	<1	<1	<1	<1	<1	<1	<1	mg/kg	1	A-T-024s
Zinc$_D$[M#]	7	41	49	20	18	14	14	mg/kg	1	A-T-024s
Mineral Oil (>C10-C40)$_A$	261	16	<10	44	28	108	220	mg/kg	10	A-T-007s
Methyl Acrylate$_A$	Appended	Appended	Appended	Appended	Appended	Appended	Appended	mg/kg	0.1	Subcon RPS MH
Acrylonitrile$_A$	Appended	Appended	Appended	Appended	Appended	Appended	Appended	µg/kg	10	Subcon Chemtest

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/1	25/08937/2	25/08937/3	25/08937/4	25/08937/5	25/08937/6	25/08937/7	Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1	1			
Client Sample ID	BHM05	TPM83	TPM88	BHM14	BHM10	BHM06	BHM08			
Depth to Top	1.00	0.50	0.40	0.50	0.50	0.50	0.50			
Depth To Bottom	1.50	1.00	0.50	1.00	1.00	1.00	1.00			
Date Sampled	17-Jul-25	24-Jun-25	26-Jun-25	01-Jul-25	08-Jul-25	16-Jul-25	09-Jul-25			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	5A	4A	5AE	6A	6AE	4A	6A			
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil$_{D}^{\#}$	NAD	NAD	NAD	NAD	NAD	NAD	NAD			A-T-045
Asbestos Matrix (visual)$_{D}$	-	-	-	-	-	-	-			A-T-045
Asbestos Matrix (microscope)$_{D}$	-	-	-	-	-	-	-			A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A	N/A	N/A	N/A	N/A	N/A	N/A			A-T-045

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/1	25/08937/2	25/08937/3	25/08937/4	25/08937/5	25/08937/6	25/08937/7	Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1	1			
Client Sample ID	BHM05	TPM83	TPM88	BHM14	BHM10	BHM06	BHM08			
Depth to Top	1.00	0.50	0.40	0.50	0.50	0.50	0.50			
Depth To Bottom	1.50	1.00	0.50	1.00	1.00	1.00	1.00			
Date Sampled	17-Jul-25	24-Jun-25	26-Jun-25	01-Jul-25	08-Jul-25	16-Jul-25	09-Jul-25			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	5A	4A	5AE	6A	6AE	4A	6A			
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	<0.10	<0.01	<0.01	0.73	0.01	<0.10	15.8	mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.10	<0.01	<0.01	0.03	<0.01	<0.10	0.21	mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.20	<0.02	0.06	0.60	<0.02	<0.20	11.2	mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.40	0.30	0.66	2.18	0.13	<0.40	16.3	mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.40	0.47	0.83	2.66	0.21	<0.40	12.2	mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.50	0.57	1.10	3.26	0.28	<0.50	15.4	mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.50	0.34	0.54	1.36	0.23	<0.50	6.06	mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.70	0.21	0.43	1.10	0.08	<0.70	5.90	mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.60	0.35	0.72	2.06	0.15	<0.60	15.6	mg/kg	0.06	A-T-019s
Coronene$_A$	<0.10	0.09	0.16	0.35	0.08	<0.10	1.58	mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	<0.40	0.05	0.10	0.29	<0.04	<0.40	1.34	mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.80	0.49	1.09	6.27	0.19	<0.80	50.4	mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	<0.10	<0.01	<0.01	0.28	0.01	<0.10	9.34	mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.30	0.35	0.56	1.67	0.20	<0.30	7.09	mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.30	<0.03	<0.03	0.03	0.03	<0.30	9.03	mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	<0.30	0.05	0.23	1.30	0.05	<0.30	38.6	mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.70	0.52	0.95	6.04	0.17	<0.70	41.9	mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	<0.80	3.79	7.43	30.2	1.82	<0.80	258	mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/1	25/08937/2	25/08937/3	25/08937/4	25/08937/5	25/08937/6	25/08937/7	Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1	1			
Client Sample ID	BHM05	TPM83	TPM88	BHM14	BHM10	BHM06	BHM08			
Depth to Top	1.00	0.50	0.40	0.50	0.50	0.50	0.50			
Depth To Bottom	1.50	1.00	0.50	1.00	1.00	1.00	1.00			
Date Sampled	17-Jul-25	24-Jun-25	26-Jun-25	01-Jul-25	08-Jul-25	16-Jul-25	09-Jul-25			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	5A	4A	5AE	6A	6AE	4A	6A			
Speciated PCB-EC7										
PCB BZ $28_A^{M\#}$	<0.030	<0.003	<0.003	<0.003	<0.003	<0.030	<0.003	mg/kg	0.003	A-T-004s
PCB BZ $52_A^{M\#}$	<0.020	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002	mg/kg	0.002	A-T-004s
PCB BZ $101_A^{M\#}$	<0.040	<0.004	<0.004	<0.004	<0.004	<0.040	<0.004	mg/kg	0.004	A-T-004s
PCB BZ $118_A^{M\#}$	<0.070	<0.007	<0.007	<0.007	<0.007	<0.070	<0.007	mg/kg	0.007	A-T-004s
PCB BZ $138_A^{M\#}$	<0.060	<0.006	<0.006	<0.006	<0.006	<0.060	<0.006	mg/kg	0.006	A-T-004s
PCB BZ $153_A^{M\#}$	<0.040	<0.004	<0.004	<0.004	<0.004	<0.040	<0.004	mg/kg	0.004	A-T-004s
PCB BZ $180_A^{M\#}$	<0.040	<0.004	<0.004	<0.004	<0.004	<0.040	<0.004	mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7$_A^{M\#}$	<0.070	<0.007	<0.007	<0.007	<0.007	<0.070	<0.007	mg/kg	0.003	A-T-004s

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/1	25/08937/2	25/08937/3	25/08937/4	25/08937/5	25/08937/6	25/08937/7	Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1	1			
Client Sample ID	BHM05	TPM83	TPM88	BHM14	BHM10	BHM06	BHM08			
Depth to Top	1.00	0.50	0.40	0.50	0.50	0.50	0.50			
Depth To Bottom	1.50	1.00	0.50	1.00	1.00	1.00	1.00			
Date Sampled	17-Jul-25	24-Jun-25	26-Jun-25	01-Jul-25	08-Jul-25	16-Jul-25	09-Jul-25			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	5A	4A	5AE	6A	6AE	4A	6A			
Envirolab WAC A (Leachate only) 10:1										
Mass Sample (1 stage WAC)	0.186	0.222	0.339	0.215	0.248	0.176	0.216	Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	94.2	79.0	51.7	81.3	70.5	99.1	81.2	% w/w	0.1	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	8	<1	<1	<1	<1	<100	<10	mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	13	<1	<1	<1	<1	<100	<10	mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	9	<1	<1	3	<1	<100	41	mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	7	2	2	7	1	<100	33	mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	129	17	21	19	25	1600	186	mg/kg	1	A-T-055s
Ali >C35-C40$_A$	102	5	10	13	7	576	36	mg/kg	1	A-T-055s
Total Aliphatics$_A$	267	25	33	42	34	2180	296	mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	18	2	<1	<1	2	142	17	mg/kg	1	A-T-055s
Aro >C10-C12$_A$	9	<1	<1	<1	<1	<100	44	mg/kg	1	A-T-055s
Aro >C12-C16$_A$	8	2	2	16	1	<100	293	mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	8	4	14	69	3	<100	626	mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	34	23	79	177	17	398	1150	mg/kg	1	A-T-055s
Aro >C35-C40$_A$	60	4	12	13	3	324	55	mg/kg	1	A-T-055s
Total Aromatics$_A$	136	36	107	276	28	864	2190	mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	404	61	140	318	61	3040	2490	mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	A-T-022s

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/1	25/08937/2	25/08937/3	25/08937/4	25/08937/5	25/08937/6	25/08937/7	Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1	1			
Client Sample ID	BHM05	TPM83	TPM88	BHM14	BHM10	BHM06	BHM08			
Depth to Top	1.00	0.50	0.40	0.50	0.50	0.50	0.50			
Depth To Bottom	1.50	1.00	0.50	1.00	1.00	1.00	1.00			
Date Sampled	17-Jul-25	24-Jun-25	26-Jun-25	01-Jul-25	08-Jul-25	16-Jul-25	09-Jul-25			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	5A	4A	5AE	6A	6AE	4A	6A			
Ammoniacal nitrogen as N (10:1 leachable)$_A$	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.78	mg/l	0.05	A-T-033w

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/1	25/08937/2	25/08937/3	25/08937/4	25/08937/5	25/08937/6	25/08937/7	Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1	1			
Client Sample ID	BHM05	TPM83	TPM88	BHM14	BHM10	BHM06	BHM08			
Depth to Top	1.00	0.50	0.40	0.50	0.50	0.50	0.50			
Depth To Bottom	1.50	1.00	0.50	1.00	1.00	1.00	1.00			
Date Sampled	17-Jul-25	24-Jun-25	26-Jun-25	01-Jul-25	08-Jul-25	16-Jul-25	09-Jul-25			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	5A	4A	5AE	6A	6AE	4A	6A			
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*	*	*	*	*	*	*			A-T-001
pH (10:1 leachable)$_A$	7.74	7.92	8.06	8.07	8.22	7.65	8.01	pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	435	83	188	165	145	444	160	µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	218	42	94	83	73	222	80	mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	<1.00	<1.00	4.29	1.29	<1.00	<1.00	1.16	mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	0.59	0.58	0.53	0.54	0.47	0.25	0.37	mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	212.65	<1.00	8.92	42.46	21.48	220.58	34.58	mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	<0.01	0.01	<0.01	<0.01	0.03	<0.01	<0.01	mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.046	0.023	0.013	0.016	0.022	0.037	0.010	mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	<0.004	<0.004	<0.004	0.004	<0.004	<0.004	<0.004	mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	<0.001	0.002	0.005	<0.001	<0.001	<0.001	<0.001	mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	0.005	<0.001	0.002	0.005	0.004	0.003	0.002	mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	<0.002	<0.002	<0.002	0.002	0.002	<0.002	<0.002	mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.011	0.010	0.022	0.009	0.010	0.007	0.010	mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.46	0.23	0.13	0.16	0.22	0.37	0.10	mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	<10	<10	43	13	<10	<10	12	mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	<0.04	<0.04	<0.04	0.04	<0.04	<0.04	<0.04	mg/kg	0.04	Calc-no stones
DOC (10:1 cumulative mg/kg)	<200	<200	<200	<200	<200	<200	<200	mg/kg	200	Calc-no stones
Fluoride (10:1 cumulative mg/kg)	6	6	5	5	5	3	4	mg/kg	1	Calc-no stones

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/1	25/08937/2	25/08937/3	25/08937/4	25/08937/5	25/08937/6	25/08937/7	Units	Limit of Detection	Method ref
Client Sample No	1	1	1	1	1	1	1			
Client Sample ID	BHM05	TPM83	TPM88	BHM14	BHM10	BHM06	BHM08			
Depth to Top	1.00	0.50	0.40	0.50	0.50	0.50	0.50			
Depth To Bottom	1.50	1.00	0.50	1.00	1.00	1.00	1.00			
Date Sampled	17-Jul-25	24-Jun-25	26-Jun-25	01-Jul-25	08-Jul-25	16-Jul-25	09-Jul-25			
Sample Type	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES	SOIL - ES			
Sample Matrix Code	5A	4A	5AE	6A	6AE	4A	6A			
Lead (10:1 cumulative mg/kg)	<0.01	0.02	0.05	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	0.05	<0.01	0.02	0.05	0.04	0.03	0.02	mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	<0.02	<0.02	<0.02	0.02	0.02	<0.02	<0.02	mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	<0.1	0.1	<0.1	<0.1	0.3	<0.1	<0.1	mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	2127	<10	89	425	215	2206	346	mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	2180	420	940	830	730	2220	800	mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.11	0.10	0.22	0.09	0.10	0.07	0.10	mg/kg	0.02	Calc-no stones

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/8									
Client Sample No	1									
Client Sample ID	TPM98									
Depth to Top	0.30									
Depth To Bottom	0.40									
Date Sampled	27-Jun-25									
Sample Type	SOIL - ES									
Sample Matrix Code	6A									
									Units	Limit of Detection	Method ref
% Moisture at <40C$_A$	2.7								% w/w	0.1	A-T-044
% Stones >10mm$_A$	<0.1								% w/w	0.1	A-T-044
pH$_D$$^{M\#}$	8.56								pH	0.01	A-T-031s
Sulphate (acid soluble)$_D$$^{M\#}$	<200								mg/kg	200	A-T-028s
Cyanide (total)$_A$$^{M\#}$	<1								mg/kg	1	A-T-042sTCN
Phenols - Total by HPLC$_A$	<0.2								mg/kg	0.2	A-T-050s
Sulphide$_A$	<5								mg/kg	5	A-T-043-s
Sulphur (elemental)$_D$$^{M\#}$	<5								mg/kg	5	A-T-029s
Total Organic Carbon$_D$$^{M\#}$	0.84								% w/w	0.08	A-T-032s
Antimony$_D$	<5								mg/kg	5	A-T-024s
Arsenic$_D$$^{M\#}$	<1								mg/kg	1	A-T-024s
Barium$_D$$^{\#}$	18								mg/kg	3	A-T-024s
Boron (water soluble)$_D$$^{M\#}$	<1.0								mg/kg	1	A-T-027s
Cadmium$_D$	<1.0								mg/kg	1	A-T-024s
Copper$_D$$^{M\#}$	14								mg/kg	1	A-T-024s
Chromium$_D$$^{M\#}$	10								mg/kg	1	A-T-024s
Chromium (hexavalent)$_D$	<1								mg/kg	1	A-T-040s
Chromium (trivalent)	10								mg/kg	1	Calc
Lead$_D$$^{M\#}$	7								mg/kg	1	A-T-024s
Mercury$_D$	<0.17								mg/kg	0.17	A-T-024s
Molybdenum$_D$$^{M\#}$	<1								mg/kg	1	A-T-024s
Nickel$_D$$^{M\#}$	12								mg/kg	1	A-T-024s
Selenium$_D$$^{M\#}$	<1								mg/kg	1	A-T-024s
Zinc$_D$$^{M\#}$	31								mg/kg	1	A-T-024s
Mineral Oil (>C10-C40)$_A$	<10								mg/kg	10	A-T-007s
Methyl Acrylate$_A$	Appended								mg/kg	0.1	Subcon RPS MH
Acrylonitrile$_A$	Appended								µg/kg	10	Subcon Chemtest

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

								Units	Limit of Detection	Method ref
Lab Sample ID	25/08937/8									
Client Sample No	1									
Client Sample ID	TPM98									
Depth to Top	0.30									
Depth To Bottom	0.40									
Date Sampled	27-Jun-25									
Sample Type	SOIL - ES									
Sample Matrix Code	6A									
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil$_{D}^{\#}$	NAD									A-T-045
Asbestos Matrix (visual)$_{D}$	-									A-T-045
Asbestos Matrix (microscope)$_{D}$	-									A-T-045
Asbestos ACM - Suitable for Water Absorption Test?$_{D}$	N/A									A-T-045

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/8							Units	Limit of Detection	Method ref
Client Sample No	1									
Client Sample ID	TPM98									
Depth to Top	0.30									
Depth To Bottom	0.40									
Date Sampled	27-Jun-25									
Sample Type	SOIL - ES									
Sample Matrix Code	6A									
PAH-16MS plus Coronene										
Acenaphthene$_A^{M\#}$	0.02							mg/kg	0.01	A-T-019s
Acenaphthylene$_A^{M\#}$	<0.01							mg/kg	0.01	A-T-019s
Anthracene$_A^{M\#}$	<0.02							mg/kg	0.02	A-T-019s
Benzo(a)anthracene$_A^{M\#}$	<0.04							mg/kg	0.04	A-T-019s
Benzo(a)pyrene$_A^{M\#}$	<0.04							mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene$_A^{M\#}$	<0.05							mg/kg	0.05	A-T-019s
Benzo(ghi)perylene$_A^{M\#}$	<0.05							mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene$_A^{M\#}$	<0.07							mg/kg	0.07	A-T-019s
Chrysene$_A^{M\#}$	<0.06							mg/kg	0.06	A-T-019s
Coronene$_A$	<0.01							mg/kg	0.01	A-T-019s
Dibenzo(ah)anthracene$_A^{M\#}$	<0.04							mg/kg	0.04	A-T-019s
Fluoranthene$_A^{M\#}$	<0.08							mg/kg	0.08	A-T-019s
Fluorene$_A^{M\#}$	0.01							mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene$_A^{M\#}$	<0.03							mg/kg	0.03	A-T-019s
Naphthalene $_A^{M\#}$	<0.03							mg/kg	0.03	A-T-019s
Phenanthrene$_A^{M\#}$	0.05							mg/kg	0.03	A-T-019s
Pyrene$_A^{M\#}$	<0.07							mg/kg	0.07	A-T-019s
Total PAH-16MS plus Coronene$_A$	0.08							mg/kg	0.01	A-T-019s

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/8							Units	Limit of Detection	Method ref
Client Sample No	1									
Client Sample ID	TPM98									
Depth to Top	0.30									
Depth To Bottom	0.40									
Date Sampled	27-Jun-25									
Sample Type	SOIL - ES									
Sample Matrix Code	6A									
Speciated PCB-EC7										
PCB BZ 28_A M#	<0.003							mg/kg	0.003	A-T-004s
PCB BZ 52_A M#	<0.002							mg/kg	0.002	A-T-004s
PCB BZ 101_A M#	<0.004							mg/kg	0.004	A-T-004s
PCB BZ 118_A M#	<0.007							mg/kg	0.007	A-T-004s
PCB BZ 138_A M#	<0.006							mg/kg	0.006	A-T-004s
PCB BZ 153_A M#	<0.004							mg/kg	0.004	A-T-004s
PCB BZ 180_A M#	<0.004							mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7 $_A$ M#	<0.007							mg/kg	0.003	A-T-004s

Lab Sample ID	25/08937/8							Units	Limit of Detection	Method ref
Client Sample No	1									
Client Sample ID	TPM98									
Depth to Top	0.30									
Depth To Bottom	0.40									
Date Sampled	27-Jun-25									
Sample Type	SOIL - ES									
Sample Matrix Code	6A									
Envirolab WAC A (Leachate only) 10:1										
Mass Sample (1 stage WAC)	0.213							Kg	0.001	Calc-no stones
Dry Matter (Dry Solids) at 40C	82.0							% w/w	0.1	Calc-no stones
TPH CWG GCxGC (>C5-C40) with Clean Up										
Ali >C5-C6$_A$	<0.01							mg/kg	0.01	A-T-022s
Ali >C6-C8$_A$	<0.01							mg/kg	0.01	A-T-022s
Ali >C8-C10$_A$	<1							mg/kg	1	A-T-055s
Ali >C10-C12$_A^{M\#}$	<1							mg/kg	1	A-T-055s
Ali >C12-C16$_A^{M\#}$	<1							mg/kg	1	A-T-055s
Ali >C16-C21$_A^{M\#}$	<1							mg/kg	1	A-T-055s
Ali >C21-C35$_A^{M\#}$	6							mg/kg	1	A-T-055s
Ali >C35-C40$_A$	1							mg/kg	1	A-T-055s
Total Aliphatics$_A$	7							mg/kg	1	Calc-As Recd
Aro >C5-C7$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
Aro >C7-C8$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
Aro >C8-C10$_A$	1							mg/kg	1	A-T-055s
Aro >C10-C12$_A$	<1							mg/kg	1	A-T-055s
Aro >C12-C16$_A$	<1							mg/kg	1	A-T-055s
Aro >C16-C21$_A^{M\#}$	<1							mg/kg	1	A-T-055s
Aro >C21-C35$_A^{M\#}$	2							mg/kg	1	A-T-055s
Aro >C35-C40$_A$	<1							mg/kg	1	A-T-055s
Total Aromatics$_A$	3							mg/kg	1	Calc-As Recd
TPH (Ali & Aro >C5-C40)$_A$	10							mg/kg	1	Calc-As Recd
BTEX - Benzene$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
BTEX - Toluene$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
BTEX - m & p Xylene$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
BTEX - o Xylene$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s
MTBE$_A^{\#}$	<0.01							mg/kg	0.01	A-T-022s

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/8							Units	Limit of Detection	Method ref
Client Sample No	1									
Client Sample ID	TPM98									
Depth to Top	0.30									
Depth To Bottom	0.40									
Date Sampled	27-Jun-25									
Sample Type	SOIL - ES									
Sample Matrix Code	6A									
Ammoniacal nitrogen as N (10:1 leachable)$_A$	<0.05							mg/l	0.05	A-T-033w

Lab Sample ID	25/08937/8							Units	Limit of Detection	Method ref
Client Sample No	1									
Client Sample ID	TPM98									
Depth to Top	0.30									
Depth To Bottom	0.40									
Date Sampled	27-Jun-25									
Sample Type	SOIL - ES									
Sample Matrix Code	6A									
Envirolab WAC A (Leachate only) 10:1										
Leachate Prep BS EN 12457-2 (10:1) WAC$_A$	*									A-T-001
pH (10:1 leachable)$_A$	8.12							pH	0.01	A-T-031w
Electrical conductivity (10:1 leachable)$_A$	86							µs/cm	10	A-T-037w
Total Dissolved Solids (10:1 leachable)$_A$	43							mg/l	20	Probe (w)
Chloride (10:1 leachable)$_A$	<1.00							mg/l	1	A-T-026w
Fluoride (10:1 leachable)$_A$	0.44							mg/l	0.1	A-T-026w (F)
Sulphate (10:1 leachable)$_A$	1.07							mg/l	1	A-T-026w
Phenols (10:1 leachable)$_A$	<0.01							mg/l	0.01	A-T-050w
DOC (10:1 leachable)$_A$	<2.0							mg/l	2	A-T-032w
Antimony (10:1 leachable)$_A$	<0.001							mg/l	0.001	A-T-025w
Arsenic (10:1 leachable)$_A$	<0.001							mg/l	0.001	A-T-025w
Barium (10:1 leachable)$_A$	0.005							mg/l	0.001	A-T-025w
Cadmium (10:1 leachable)$_A$	<0.001							mg/l	0.001	A-T-025w
Copper (10:1 leachable)$_A$	<0.004							mg/l	0.004	A-T-025w
Chromium (10:1 leachable)$_A$	<0.001							mg/l	0.001	A-T-025w
Lead (10:1 leachable)$_A$	<0.001							mg/l	0.001	A-T-025w
Mercury (10:1 leachable)$_A$	<0.0005							mg/l	0.0005	A-T-025w
Molybdenum (10:1 leachable)$_A$	<0.001							mg/l	0.001	A-T-025w
Nickel (10:1 leachable)$_A$	<0.002							mg/l	0.002	A-T-025w
Selenium (10:1 leachable)$_A$	<0.001							mg/l	0.001	A-T-025w
Zinc (10:1 leachable)$_A$	0.009							mg/l	0.002	A-T-025w
WAC-A 10:1 cumulative mg/kg										
Antimony (10:1 cumulative mg/kg)	<0.01							mg/kg	0.01	Calc-no stones
Arsenic (10:1 cumulative mg/kg)	<0.01							mg/kg	0.01	Calc-no stones
Barium (10:1 cumulative mg/kg)	0.05							mg/kg	0.01	Calc-no stones
Cadmium (10:1 cumulative mg/kg)	<0.01							mg/kg	0.01	Calc-no stones
Chloride (10:1 cumulative mg/kg)	<10							mg/kg	10	Calc-no stones
Chromium (10:1 cumulative mg/kg)	<0.01							mg/kg	0.01	Calc-no stones
Copper (10:1 cumulative mg/kg)	<0.04							mg/kg	0.04	Calc-no stones
DOC (10:1 cumulative mg/kg)	<200							mg/kg	200	Calc-no stones
Fluoride (10:1 cumulative mg/kg)	4							mg/kg	1	Calc-no stones

Envirolab Job Number: 25/08937

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/08937/8							Units	Limit of Detection	Method ref
Client Sample No	1									
Client Sample ID	TPM98									
Depth to Top	0.30									
Depth To Bottom	0.40									
Date Sampled	27-Jun-25									
Sample Type	SOIL - ES									
Sample Matrix Code	6A									
Lead (10:1 cumulative mg/kg)	<0.01							mg/kg	0.01	Calc-no stones
Mercury (10:1 cumulative mg/kg)	<0.005							mg/kg	0.005	Calc-no stones
Molybdenum (10:1 cumulative mg/kg)	<0.01							mg/kg	0.01	Calc-no stones
Nickel (10:1 cumulative mg/kg)	<0.02							mg/kg	0.02	Calc-no stones
Phenols (10:1 cumulative mg/kg)	<0.1							mg/kg	0.1	Calc-no stones
Selenium (10:1 cumulative mg/kg)	<0.01							mg/kg	0.01	Calc-no stones
Sulphate (10:1 cumulative mg/kg)	11							mg/kg	10	Calc-no stones
Total Dissolved Solids (10:1 cumulative mg/kg)	430							mg/kg	200	Calc-no stones
Zinc (10:1 cumulative mg/kg)	0.09							mg/kg	0.02	Calc-no stones

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/08937

Date Received: 14/08/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 21.3

Clients Project No: 2024SO105

Lab Sample ID	25/08937/1	25/08937/2	25/08937/3	25/08937/4	25/08937/5	25/08937/6	25/08937/7	25/08937/8
Client Sample No	1	1	1	1	1	1	1	1
Client Sample ID/Depth	BHM05 1.00-1.50m	TPM83 0.50-1.00m	TPM88 0.40-0.50m	BHM14 0.50-1.00m	BHM10 0.50-1.00m	BHM06 0.50-1.00m	BHM08 0.50-1.00m	TPM98 0.30-0.40m
Date Sampled	17/07/25	24/06/25	26/06/25	01/07/25	08/07/25	16/07/25	09/07/25	27/06/25
Deviation Code								
F	✓	✓	✓	✓	✓	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/08937/1	25/08937/2	25/08937/3	25/08937/4	25/08937/5	25/08937/6	25/08937/7	25/08937/8
Client Sample No	1	1	1	1	1	1	1	1
Client Sample ID/Depth	BHM05 1.00-1.50m	TPM83 0.50-1.00m	TPM88 0.40-0.50m	BHM14 0.50-1.00m	BHM10 0.50-1.00m	BHM06 0.50-1.00m	BHM08 0.50-1.00m	TPM98 0.30-0.40m
Date Sampled	17/07/25	24/06/25	26/06/25	01/07/25	08/07/25	16/07/25	09/07/25	27/06/25
Speciated PCB-EC7	✓	✓	✓	✓	✓	✓	✓	✓
PAH-16MS plus Coronene	✓	✓	✓	✓	✓	✓	✓	✓
VPHCWG	✓	✓	✓	✓	✓	✓	✓	✓
EPHCWG (GCxGC) (upto C40)	✓	✓	✓	✓	✓	✓	✓	✓
Total Organic Carbon	✓	✓	✓	✓	✓	✓	✓	✓
Cyanide (total)	✓	✓	✓	✓	✓	✓	✓	✓
Sulphate (acid soluble)	✓	✓	✓	✓	✓	✓	✓	✓
Mineral Oil (>C10-C40)	✓	✓	✓	✓	✓	✓	✓	✓

Note: If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3 (for water samples 5 ± 3°C), ISO 18400-105:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/08937/1	25/08937/2	25/08937/3	25/08937/4	25/08937/5	25/08937/6	25/08937/7	25/08937/8
Client Sample No	1	1	1	1	1	1	1	1
Client Sample ID/Depth	BHM05 1.00-1.50m	TPM83 0.50-1.00m	TPM88 0.40-0.50m	BHM14 0.50-1.00m	BHM10 0.50-1.00m	BHM06 0.50-1.00m	BHM08 0.50-1.00m	TPM98 0.30-0.40m
Date Sampled	17/07/25	24/06/25	26/06/25	01/07/25	08/07/25	16/07/25	09/07/25	27/06/25
A-T-004s	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025
A-T-007s	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	28/08/2025	27/08/2025	27/08/2025
A-T-019s	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025
A-T-022s	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025
A-T-024s	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025
A-T-025w	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025
A-T-026w	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025
A-T-026w (F)	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025
A-T-027s	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025
A-T-028s	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025
A-T-029s	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025
A-T-031s	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025
A-T-031w	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025
A-T-032s	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025
A-T-032w	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025
A-T-033w	29/08/2025	29/08/2025	29/08/2025	29/08/2025	29/08/2025	29/08/2025	29/08/2025	29/08/2025
A-T-037w	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025
A-T-040s	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025
A-T-042sTCN	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025
A-T-043-s	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025
A-T-044	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025
A-T-045	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025
A-T-050s	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025
A-T-050w	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025
A-T-055s	28/08/2025	28/08/2025	27/08/2025	27/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025
Calc	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025
Calc-As Recd	28/08/2025	28/08/2025	27/08/2025	27/08/2025	28/08/2025	28/08/2025	28/08/2025	28/08/2025
Calc-no stones	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025
Probe (w)	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025	01/09/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

Final Test Report

SUPPLEMENT TO TEST REPORT 25/08937/1

Envirolab Job Number:	25/08937		
Issue Number:	2	Date:	12-Nov-25

Client: Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager:	Damien O'Reilly/IDL Lab
Project Name:	Lough Talt - 2024SO105
Project Ref:	2024SO105
Order No:	PKB21191
Date Samples Received:	14-Aug-25
Date Instructions Received:	14-Aug-25
Date Analysis Completed:	7-Nov-25

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Danielle Brierley
Client Services Supervisor

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/08937/1				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				BHM05				
Depth to Top				1				
Depth to Bottom				1.50				
Date Sampled				17/07/2025				
Sample Type				Soil - ES				
Sample Matrix Code				5A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.08**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.71**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**261**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.046	**0.460**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.005	**0.050**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.011	**0.110**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	0.6	**6.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	213	**2127**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	218	**2180**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.7				
Conductivity (µS/cm)	A-T-037	N	N	435				
Mass Sample (kg)				0.186				
Dry Matter (%)	A-T-044	N	N	94.2				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/08937/2				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM83				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				24/06/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.10**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**1.75**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**16**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.023	**0.230**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.002	**0.020**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.010	**0.100**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	0.6	**6.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	<1.00	**<10**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	42	**420**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.01	**0.10**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.9				
Conductivity (µS/cm)	A-T-037	N	N	83				
Mass Sample (kg)				0.222				
Dry Matter (%)	A-T-044	N	N	79				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/08937/3				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM88				
Depth to Top				0.4				
Depth to Bottom				0.50				
Date Sampled				26/06/2025				
Sample Type				Soil - ES				
Sample Matrix Code				5AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**7.97**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**3.22**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.013	**0.130**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.002	**0.020**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	0.005	**0.050**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.022	**0.220**	4	50	200
Chloride	A-T-026	N	N	4	**43**	800	15000	25000
Fluoride	A-T-026	N	N	0.5	**5.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	9	**89**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	94	**940**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.1				
Conductivity (µS/cm)	A-T-037	N	N	188				
Mass Sample (kg)				0.339				
Dry Matter (%)	A-T-044	N	N	51.7				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/08937/4				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				BHM14				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				01/07/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.03**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.22**		3	5	6
PAH Sum of 17 (mg/kg) $_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**44**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.016	**0.160**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	0.004	**0.040**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.005	**0.050**	0.5	10	30
Nickel	A-T-025	N	N	0.002	**0.020**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.009	**0.090**	4	50	200
Chloride	A-T-026	N	N	1	**13**	800	15000	25000
Fluoride	A-T-026	N	N	0.5	**5.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	42	**425**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	83	**830**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.1				
Conductivity (µS/cm)	A-T-037	N	N	165				
Mass Sample (kg)				0.215				
Dry Matter (%)	A-T-044	N	N	81.3				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/08937/5				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				BHM10				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				08/07/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.11**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**2.28**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**28**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.022	**0.220**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.004	**0.040**	0.5	10	30
Nickel	A-T-025	N	N	0.002	**0.020**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.010	**0.100**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	0.5	**5.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	21	**215**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	73	**730**	4000	60000	100000
Phenol Index	A-T-050	N	N	0.03	**0.30**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.2				
Conductivity (µS/cm)	A-T-037	N	N	145				
Mass Sample (kg)				0.248				
Dry Matter (%)	A-T-044	N	N	70.5				

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Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/08937/6				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				BHM06				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				16/07/2025				
Sample Type				Soil - ES				
Sample Matrix Code				4A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.48**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**11.7**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**108**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.037	**0.370**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.003	**0.030**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.007	**0.070**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	0.3	**3.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	221	**2206**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	222	**2220**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.7				
Conductivity (µS/cm)	A-T-037	N	N	444				
Mass Sample (kg)				0.176				
Dry Matter (%)	A-T-044	N	N	99.1				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

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Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/08937/7				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				BHM08				
Depth to Top				0.5				
Depth to Bottom				1.00				
Date Sampled				09/07/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**6.90**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**13.9**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**220**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.010	**0.100**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.002	**0.020**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.010	**0.100**	4	50	200
Chloride	A-T-026	N	N	1	**12**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	35	**346**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	80	**800**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.0				
Conductivity (µS/cm)	A-T-037	N	N	160				
Mass Sample (kg)				0.216				
Dry Matter (%)	A-T-044	N	N	81.2				

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Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	25/08937/8				
Client Sample Number				1		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TPM98				
Depth to Top				0.3				
Depth to Bottom				0.40				
Date Sampled				27/06/2025				
Sample Type				Soil - ES				
Sample Matrix Code				6A				
Solid Waste Analysis								
pH (pH Units)$_D$	A-T-031	N	N	**8.56**		-	>6	-
ANC to pH 4 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg)$_D$	A-T-ANC	N	N			-	to be evaluated	to be evaluated
Loss on Ignition (%)$_D$	A-T-030	N	N			-	-	10
Total Organic Carbon (%)$_D$	A-T-032	N	N	**0.84**		3	5	6
PAH Sum of 17 (mg/kg)$_A$	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg)$_{A\ EH_CU_1D_AL}$	A-T-007	N	N	**<10**		500	-	-
Sum of 7 PCBs (mg/kg)$_A$	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg)$_A$	A-T-022	N	N			6	-	-
Eluate Analysis				**10:1 mg/l**	**10:1 mg/kg**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)**		
Arsenic	A-T-025	N	N	<0.001	**<0.01**	0.5	2	25
Barium	A-T-025	N	N	0.005	**0.050**	20	100	300
Cadmium	A-T-025	N	N	<0.001	**<0.01**	0.04	1	5
Chromium	A-T-025	N	N	<0.001	**<0.01**	0.5	10	70
Copper	A-T-025	N	N	<0.004	**<0.04**	2	50	100
Mercury	A-T-025	N	N	<0.0005	**<0.005**	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	**<0.01**	0.5	10	30
Nickel	A-T-025	N	N	<0.002	**<0.02**	0.4	10	40
Lead	A-T-025	N	N	<0.001	**<0.01**	0.5	10	50
Antimony	A-T-025	N	N	<0.001	**<0.01**	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	**<0.01**	0.1	0.5	7
Zinc	A-T-025	N	N	0.009	**0.090**	4	50	200
Chloride	A-T-026	N	N	<1.00	**<10**	800	15000	25000
Fluoride	A-T-026	N	N	0.4	**4.0**	10	150	500
Sulphate as SO_4	A-T-026	N	N	1	**11**	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	43	**430**	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	**<0.1**	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	**<200**	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.1				
Conductivity (µS/cm)	A-T-037	N	N	86				
Mass Sample (kg)				0.213				
Dry Matter (%)	A-T-044	N	N	82				

Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation

Certificate of Analysis

Report No.:	**25-08398-1**
Issue No.:	**1**
Date of Issue	**07/11/2025**
Customer Details:	Envirolab Ltd, 7 - 8 Sandpits Business Park, Mottram Road, Hyde, Greater Manchester, SK14 3AR, United Kingdom
Customer Contact:	Maleyka Owen-Agjef
Customer Order No.:	P0757772
Customer Reference:	Not Supplied
Quotation Reference:	Q25-03486 (Issue: 4)
Description:	8 geo samples
Date Received:	19/09/2025
Date Started:	22/09/2025
Date Completed:	07/11/2025
Test Methods:	Details available on request (refer to SOP code against relevant result/s)
Notes:	None



Approved By: **Grace Lau, Study Manager**

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service.
This certificate shall not be reproduced except in full without the prior written approval of the laboratory.
Observations and interpretations are outside of the scope of UKAS accreditation.
Results reported herein relate only to the items supplied to the laboratory for testing.
Results on an Interim Report are not dry-weight corrected.
Where the laboratory is not responsible for the sampling, results apply to the sample(s) as they were received.
The laboratory shall not be responsible for any information that is supplied by the customer that may affect the validity of results.

Testing performed by RPS Environmental Management Limited, a Tetra Tech Company. Registered in England No. 01756175.
13 St Martins Way, Bedford, Bedfordshire, MK42 0LF. T +44 1462 480 400
Terms and conditions apply - copy on request

Results Summary

Report No.: 25-08398-1

Customer Reference: Not Supplied

Customer Order No: P0757772

Customer Sample No					**BHM05**	**TPM83**	**TMP88**	**BHM14**	**BHM10**	**BHM06**	**BHM08**	**TPM98**
RPS Sample No					116134	116135	116136	116137	116138	116139	116140	116141
Sample Type					**GEO**	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**	**GEO**
Sample Matrix					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date					17/07/2025	24/06/2025	26/06/2025	01/07/2025	08/07/2025	16/07/2025	09/07/2025	27/06/2025
Determinand	**CAS No**	**Codes**	**SOP**	**RL**	**Units**							
methyl acrylate	96-33-3	N	G132	0.1	mg/kg AR	< 0.1 (T)	< 0.1 (T)	< 0.1 (T)	< 0.1 (T)	< 0.1 (T)	< 0.1 (T)	< 0.1 (T)	< 0.1 (T)

Deviating Samples

Report No.: 25-08398-1

Customer Reference: Not Supplied

Customer Order No: P0757772

Our policy on Deviating Samples has been implemented in accordance with UKAS Policy on Deviating Samples (TPS63).
RPS is not responsible for the integrity of samples as received, unless RPS personnel performed the sampling. Samples submitted may be declared to be deviating.
Where applicable the analysis method remains UKAS accredited, however results reported for a deviating sample may be compromised.
Where no sampling date was supplied, samples have been declared to be deviating. If the date can be supplied, results may be reissued if assessed not deviating.
Where the sample container used was unsuitable or broken, the sample is flagged as deviating and re-sampling/re-submisson may be required.

RPS No.	Customer No.	Customer ID	Date Sampled	Containers Received	Deviating	Reason for Deviation
116134	BHM05		17/07/2025	100 mL amber glass jar	**Yes**	No sampling time provided.
116135	TPM83		24/06/2025	100 mL amber glass jar	**Yes**	No sampling time provided.
116136	TMP88		26/06/2025	100 mL amber glass jar	**Yes**	No sampling time provided.
116137	BHM14		01/07/2025	100 mL amber glass jar	**Yes**	No sampling time provided.
116138	BHM10		08/07/2025	100 mL amber glass jar	**Yes**	No sampling time provided.
116139	BHM06		16/07/2025	100 mL amber glass jar	**Yes**	No sampling time provided.
116140	BHM08		09/07/2025	100 mL amber glass jar	**Yes**	No sampling time provided.
116141	TPM98		27/06/2025	100 mL amber glass jar	**Yes**	No sampling time provided.

Type	Matrix Code	Description
Food	CEREALPROD	Cereals, grains & products
Food	DRIEDFRUIT	Dried fruits
Food	FRIEDBAKED	Fried or baked food
Food	LEGUME	Legumes
Food	MEAT	Meat
Food	POWDERED	Powdered food
Food	PULSE	Pulses (dried legumes)
Food	VEGETABLES	Vegetables
Gas	TDTUBE	TD Tube
Gas	TENAX	Tenax Tube
Gas	TUBE	Tube
Gas	VAPOUR	Gas
Geological	SED_MAR	Marine Sediment
Geological	SED_RIV	River Sediment
Geological	SLUDG_SOL	Sludge (solid only)
Geological	SOIL	Soil
Liquid	BEVERAGE	Beverage
Liquid	BLOOD	Blood
Liquid	CONDENSATE	Condensate
Liquid	FOAM_LIQ	Liquid foam
Liquid	FORMULATN	Formula
Liquid	LEACHATE	Leachate
Liquid	OIL/GREASE	Oil or grease
Liquid	SLUDG_LIQ	Sludge (liquid only)
Liquid	SOLVENT	Solvent
Liquid	URINE	Urine
Sludge	SLUDG_WHL	Sludge for bulk route
Solid	BADGE	Badge
Solid	BEDDING	Bedding
Solid	BIOTA	Biota (general)
Solid	BIOTA_F	Biota (fish)
Solid	BIOTA_SF	Biota (shellfish)
Solid	CONSTRCTN	Construction materials
Solid	FABRIC	Fabrics & furnishing materials
Solid	FEED	Animal feed
Solid	FERTILISER	Fertiliser
Solid	FILTER	Filter
Solid	FOAM	Solid foam material
Solid	LATEX	Latex/Rubber
Solid	PACKAGING	Packaging material
Solid	PAPER	Paper
Solid	PLANT	Plant (vegetation)
Solid	POWDER	Powder
Solid	SWAB	Swab
Water	BAL	Ballast Water
Water	BIL	Bilge Water
Water	DW	Drinking Water
Water	EFFLUENT	Effluent
Water	GW	Ground Water
Water	INFLUENT	Influent
Water	LIQUOR	Liquor
Water	MINEW	Mine Water
Water	MW	Mineral Water
Water	SALTW	Salt Water
Water	SW	Surface Water
Water	TW	Tap Water
Water	W	Unknown Water

Key Code	Description
N	Not Accredited Test
U	UKAS Accredited Test - UKAS accreditation is only implied if the report carries the UKAS logo
UF	UKAS Flexible Scope Test
M	MCERTS Accredited Test - MCERTS accreditation is only implied if the report carries the MCERTS logo
O	Marine Management Organisation (MMO) Validated
SN	Subcontracted to approved laboratory not accredited for the test
SU	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
SIN	Subcontracted to internal RPS Group laboratory not accredited for the test
SIU	Subcontracted to internal RPS Group laboratory UKAS Accredited for the test
SIM	Subcontracted to internal RPS Group laboratory MCERTS/UKAS Accredited for the test
*	Modified standard method
I/S (in results)	Insufficient Sample
U/S (in results)	Unsuitable Sample
S/C (in results)	See Comments
ND (in results)	Not Detected
DW (in units)	Results are expressed on a dry weight basis
L (in results)	Result is outside normal limits

Sample Type	Sample Retention and Disposal Period
Foodstuff	1 week from the issue date of this report
Waters	1 week from the issue date of this report
Other Liquids	1 week from the issue date of this report
Solids / Soils	1 week from the issue date of this report
Sediments	1 week from the issue date of this report

Note: Sample retention may be subject to agreement with the customer for particular projects

Where the dry solids value of a sample is low (<50%), reporting limits are automatically raised for all determinants analysed on an as-received basis.

Soil Typing	Description
Type 1	Clay - Brown
Type 2	Clay - Grey/Black
Type 3	Sand
Type 4	Top Soil (Standard)
Type 5	Top Soil (High Peat)
Type 6	Made Ground (>50% Clay)
Type 7	Made Ground (>50% Sand)
Type 8	Made Ground (>50% Top Soil)
Type X	Other

Dev code	Description
D	No sampling date provided.
T	No sampling time provided.
Z	Temperature of samples exceeded in transit/storage.
V	Excessive headspace for volatile determinands.
P	Sample submitted without required preservative(s).
C	Incorrect container.
H	Holding time exceeded (sampling to extraction).
X	Holding time exceeded (sampling to receipt).

Project ID	2024SO105		Irish Water		
Project Name	Lot 1, Lough Talt		11 November 2025		
Schedule ID	2024SO105_total		From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
BH-M14	1.00	1.50	B	4	01/07/25				1			1	1			EnvLab 25/09020/1
BH-M17	1.00		D	2	27/06/25				1			1	1			EnvLab 25/09020/2
BH-M17	3.00		D	8	27/06/25				1			1	1			EnvLab 25/09020/3
BH-M17A	**0.00**	1.00	B	1	30/06/25				1			1	1			EnvLab 25/09020/4
BH-M17A	1.00	1.50	B	4	30/06/25				1			1	1			EnvLab 25/09020/5
BH-M20A	1.00	1.50	B	4	16/06/25				1			1	1			EnvLab 25/09020/6
BH-M20B	1.00		D	2	16/06/25				1			1	1			EnvLab 25/09020/7
BH-M20B	2.00		D	5	16/06/25				1			1	1			EnvLab 25/09020/8
BH-M24	**0.00**	1.00	B	1	17/06/25		1									EnvLab 25/09020/9
BH-M24	1.00		D	2	17/06/25		1									EnvLab 25/09020/10
BH-M24	2.00		D	5	18/06/25		1									EnvLab 25/09020/11
BH-M24	3.00		D	8	18/06/25		1									EnvLab 25/09020/12
BH-M24	5.00		D	14	18/06/25		1									EnvLab 25/09020/13
BH-M25	1.00		D	2	19/06/25				1			1	1			EnvLab 25/09020/14
BH-M26	1.00		D	2	25/06/25		1									EnvLab 25/09020/15
BH-M27	1.00		D	2	26/06/25		1									EnvLab 25/09020/16
TP-M30C	0.50	1.00	D	2	13/05/25				1			1	1			EnvLab 25/09020/17
TP-M33	0.40	0.80	D	2	21/05/25				1			1	1			EnvLab 25/09020/18
TP-M38	0.50	1.00	D	2	26/05/25				1			1	1			EnvLab 25/09020/19
TP-M39	0.50	1.00	D	2	26/05/25		1									EnvLab 25/09020/20
TP-M39	1.50	2.00	D	4	26/05/25		1									EnvLab 25/09020/21
TP-M41	0.50	1.00	D	2	27/06/25		1									EnvLab 25/09020/22
TP-M44	0.50	1.00	D	2	27/06/25				1			1	1			EnvLab 25/09020/23
TP-M45	1.50	2.00	D	4	28/05/25		1									EnvLab 25/09020/24
TP-M46	2.00	2.50	D	4	28/05/25		1									EnvLab 25/09020/25
TP-M71	0.50	1.00	D	2	03/06/25				1			1	1			EnvLab 25/09020/26
TP-M79	0.50	1.00	D	2	17/06/25				1			1	1			EnvLab 25/09020/27
TP-M79	2.00	2.50	D	4	17/06/25		1									EnvLab 25/09020/28
TP-M80	1.50	2.00	D	4	17/06/25		1									EnvLab 25/09020/29
TP-M81	0.60	1.00	D	2	17/06/25		1									EnvLab 25/09020/30
TP-M82	0.50	1.00	D	2	17/06/25		1									EnvLab 25/09020/31
TP-M85	0.50	1.00	D	2	25/06/25		1									EnvLab 25/09020/32
TP-M86	0.50	1.00	D	2	27/06/25		1									EnvLab 25/09020/33
TP-M86	2.50	3.00	D	4	27/06/25		1									EnvLab 25/09020/34
TP-M91	0.50	1.00	D	2	23/06/25				1			1	1			EnvLab 25/09020/35
TP-M92	0.80	1.30	D	2	23/06/25		1									EnvLab 25/09020/36

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/09020
Issue Number: 1 **Date:** 03 September, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: 2024SO105
Order No: PKB21191
Date Samples Received: 15/08/25
Date Instructions Received: 15/08/25
Date Analysis Completed: 03/09/25

Approved by:



Amy Riding
Administration Assistant

Envirolab Job Number: 25/09020

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/09020/1	25/09020/2	25/09020/3	25/09020/4	25/09020/5	25/09020/6	25/09020/7	Units	Limit of Detection	Method ref
Client Sample No	4	2	8	1	4	4	2			
Client Sample ID	BH-M14	BH-M17	BH-M17	BH-M17A	BH-M17A	BH-M20A	BH-M20B			
Depth to Top	1.00	1.00	3.00	0.00	1.00	1.00	1.00			
Depth To Bottom	1.50			1.00	1.50	1.50				
Date Sampled	31-Jul-25	31-Jul-25	31-Jul-25	31-Jul-25	31-Jul-25	01-Aug-25	01-Aug-25			
Sample Type	SOIL - B	SOIL - D	SOIL - D	SOIL - B	SOIL - B	SOIL - B	SOIL - D			
Sample Matrix Code	6A	5A	4A	4AE	4A	5A	4AE			
% Stones >10mm$_A$	<0.1	12.1	<0.1	<0.1	5.4	4.6	42.7	% w/w	0.1	A-T-044
pH$_D^{M\#}$	8.07	7.62	8.12	6.49	7.59	7.80	6.54	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	14	<10	<10	36	<10	<10	10	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	620	<200	<200	470	<200	500	<200	mg/kg	200	A-T-028s

Envirolab Job Number: 25/09020

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/09020/8	25/09020/9	25/09020/10	25/09020/11	25/09020/12	25/09020/13	25/09020/14	Units	Limit of Detection	Method ref
Client Sample No	5	1	2	5	8	14	2			
Client Sample ID	BH-M20B	BH-M24	BH-M24	BH-M24	BH-M24	BH-M24	BH-M25			
Depth to Top	2.00	0.00	1.00	2.00	3.00	5.00	1.00			
Depth To Bottom		1.00								
Date Sampled	01-Aug-25	01-Aug-25	01-Aug-25	01-Aug-25	01-Aug-25	01-Aug-25	05-Aug-25			
Sample Type	SOIL - D	SOIL - B	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D			
Sample Matrix Code	4A	4AE	5AE	4AE	5AE	5A	5A			
% Stones >10mm$_A$	3.7	<0.1	<0.1	<0.1	3.7	<0.1	4.9	% w/w	0.1	A-T-044
pH$_D^{M\#}$	6.19	-	-	-	-	-	7.81	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	24	-	-	-	-	-	16	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	<200	-	-	-	-	-	310	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	-	49.3	9.48	43.5	2.27	1.64	-	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/09020

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/09020/15	25/09020/16	25/09020/17	25/09020/18	25/09020/19	25/09020/20	25/09020/21	Units	Limit of Detection	Method ref
Client Sample No	2	2	2	2	2	2	4			
Client Sample ID	BH-M26	BH-M27	TP-M30C	TP-M33	TP-M38	TP-M39	TP-M39			
Depth to Top	1.00	1.00	0.50	0.40	0.50	0.50	1.50			
Depth To Bottom			1.00	0.80	1.00	1.00	2.00			
Date Sampled	05-Aug-25	05-Aug-25	05-Aug-25	05-Aug-25	05-Aug-25	05-Aug-25	05-Aug-25			
Sample Type	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D			
Sample Matrix Code	1A	4AE	4AE	4A	5A	4AE	4A			
% Stones >10mm$_A$	15.2	<0.1	15.7	4.5	3.1	2.4	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	-	-	7.53	7.58	7.71	-	-	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	-	-	38	17	28	-	-	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	-	-	630	240	2300	-	-	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	0.92	21.2	-	-	-	60.4	3.28	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/09020

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/09020/22	25/09020/23	25/09020/24	25/09020/25	25/09020/26	25/09020/27	25/09020/28	Units	Limit of Detection	Method ref
Client Sample No	2	2	4	4	2	2	4			
Client Sample ID	TP-M41	TP-M44	TP-M45	TP-M46	TP-M71	TP-M79	TP-M79			
Depth to Top	0.50	0.50	1.50	2.00	0.50	0.50	2.00			
Depth To Bottom	1.00	1.00	2.00	2.50	1.00	1.00	2.50			
Date Sampled	05-Aug-25	06-Aug-25	06-Aug-25	07-Aug-25	07-Aug-25	28-Jul-25	28-Jul-25			
Sample Type	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D			
Sample Matrix Code	4AE	4AE	4AE	4AE	4A	4AE	4AE			
% Stones >10mm$_A$	<0.1	11.7	<0.1	<0.1	3.3	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	-	8.28	-	-	7.46	5.89	-	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	-	<10	-	-	<10	432	-	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	-	220	-	-	<200	1200	-	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	71.3	-	88.1	79.6	-	-	23.1	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/09020

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/09020/29	25/09020/30	25/09020/31	25/09020/32	25/09020/33	25/09020/34	25/09020/35	Units	Limit of Detection	Method ref
Client Sample No	4	2	2	2	2	4	2			
Client Sample ID	TP-M80	TP-M81	TP-M82	TP-M85	TP-M86	TP-M86	TP-M91			
Depth to Top	1.50	0.60	0.50	0.50	0.50	2.50	0.50			
Depth To Bottom	2.00	1.00	1.00	1.00	1.00	3.00	1.00			
Date Sampled	28-Jul-25	28-Jul-25	28-Jul-25	29-Jul-25	29-Jul-25	29-Jul-25	29-Jul-25			
Sample Type	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D			
Sample Matrix Code	4AE	4AE	4AE	4AE	4AE	4AE	4A			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	25.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	-	-	-	-	-	-	8.32	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	-	-	-	-	-	-	31	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	-	-	-	-	-	-	<200	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	31.4	62.5	75.4	54.4	34.4	32.4	-	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/09020

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/09020/36							Units	Limit of Detection	Method ref
Client Sample No	2									
Client Sample ID	TP-M92									
Depth to Top	0.80									
Depth To Bottom	1.30									
Date Sampled	29-Jul-25									
Sample Type	SOIL - D									
Sample Matrix Code	5A									
% Stones >10mm$_A$	<0.1							% w/w	0.1	A-T-044
Organic Matter$_D^{M\#}$	1.19							% w/w	0.14	A-T-032s

Report Notes

General

•This report shall not be reproduced, except in full, without written approval from Envirolab.
•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/09020

Date Received: 15/08/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 20.4, 20.2, 19.4

Clients Project No: 2024SO105

Lab Sample ID	25/09020/28	25/09020/29	25/09020/30	25/09020/31	25/09020/32	25/09020/33	25/09020/34	25/09020/36
Client Sample No	4	4	2	2	2	2	4	2
Client Sample ID/Depth	TP-M79 2.00-2.50m	TP-M80 1.50-2.00m	TP-M81 0.60-1.00m	TP-M82 0.50-1.00m	TP-M85 0.50-1.00m	TP-M86 0.50-1.00m	TP-M86 2.50-3.00m	TP-M92 0.80-1.30m
Date Sampled	28/07/25	28/07/25	28/07/25	28/07/25	29/07/25	29/07/25	29/07/25	29/07/25
Deviation Code								
F	✓	✓	✓	✓	✓	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/09020/28	25/09020/29	25/09020/30	25/09020/31	25/09020/32	25/09020/33	25/09020/34	25/09020/36
Client Sample No	4	4	2	2	2	2	4	2
Client Sample ID/Depth	TP-M79 2.00-2.50m	TP-M80 1.50-2.00m	TP-M81 0.60-1.00m	TP-M82 0.50-1.00m	TP-M85 0.50-1.00m	TP-M86 0.50-1.00m	TP-M86 2.50-3.00m	TP-M92 0.80-1.30m
Date Sampled	28/07/25	28/07/25	28/07/25	28/07/25	29/07/25	29/07/25	29/07/25	29/07/25
Organic Matter	✓	✓	✓	✓	✓	✓	✓	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/09020/1	25/09020/2	25/09020/3	25/09020/4	25/09020/5	25/09020/6	25/09020/7	25/09020/8	25/09020/9	25/09020/10	25/09020/11	25/09020/12
Client Sample No	4	2	8	1	4	4	2	5	1	2	5	8
Client Sample ID/Depth	BH-M14 1.00-1.50m	BH-M17 1.00m	BH-M17 3.00m	BH-M17A 0.00-1.00m	BH-M17A 1.00-1.50m	BH-M20A 1.00-1.50m	BH-M20B 1.00m	BH-M20B 2.00m	BH-M24 0.00-1.00m	BH-M24 1.00m	BH-M24 2.00m	BH-M24 3.00m
Date Sampled	31/07/25	31/07/25	31/07/25	31/07/25	31/07/25	01/08/25	01/08/25	01/08/25	01/08/25	01/08/25	01/08/25	01/08/25
A-T-026s	22/08/2025	22/08/2025	22/08/2025	22/08/2025	22/08/2025	22/08/2025	22/08/2025	22/08/2025				
A-T-028s	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025	27/08/2025				
A-T-031s	22/08/2025	22/08/2025	22/08/2025	22/08/2025	22/08/2025	22/08/2025	22/08/2025	22/08/2025				
A-T-032s									03/09/2025	28/08/2025	29/08/2025	28/08/2025
A-T-044	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025

Lab Sample ID	25/09020/13	25/09020/14	25/09020/15	25/09020/16	25/09020/17	25/09020/18	25/09020/19	25/09020/20	25/09020/21	25/09020/22	25/09020/23	25/09020/24
Client Sample No	14	2	2	2	2	2	2	2	4	2	2	4
Client Sample ID/Depth	BH-M24 5.00m	BH-M25 1.00m	BH-M26 1.00m	BH-M27 1.00m	TP-M30C 0.50-1.00m	TP-M33 0.40-0.80m	TP-M38 0.50-1.00m	TP-M39 0.50-1.00m	TP-M39 1.50-2.00m	TP-M41 0.50-1.00m	TP-M44 0.50-1.00m	TP-M45 1.50-2.00m
Date Sampled	01/08/25	05/08/25	05/08/25	05/08/25	05/08/25	05/08/25	05/08/25	05/08/25	05/08/25	05/08/25	06/08/25	06/08/25
A-T-026s		22/08/2025			22/08/2025	22/08/2025	22/08/2025				22/08/2025	
A-T-028s		27/08/2025			27/08/2025	27/08/2025	27/08/2025				27/08/2025	
A-T-031s		22/08/2025			22/08/2025	22/08/2025	22/08/2025				22/08/2025	
A-T-032s	28/08/2025		28/08/2025	28/08/2025				29/08/2025	28/08/2025	29/08/2025		01/09/2025
A-T-044	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025

Lab Sample ID	25/09020/25	25/09020/26	25/09020/27	25/09020/28	25/09020/29	25/09020/30	25/09020/31	25/09020/32	25/09020/33	25/09020/34	25/09020/35	25/09020/36
Client Sample No	4	2	2	4	4	2	2	2	2	4	2	2
Client Sample ID/Depth	TP-M46 2.00-2.50m	TP-M71 0.50-1.00m	TP-M79 0.50-1.00m	TP-M79 2.00-2.50m	TP-M80 1.50-2.00m	TP-M81 0.60-1.00m	TP-M82 0.50-1.00m	TP-M85 0.50-1.00m	TP-M86 0.50-1.00m	TP-M86 2.50-3.00m	TP-M91 0.50-1.00m	TP-M92 0.80-1.30m
Date Sampled	07/08/25	07/08/25	28/07/25	28/07/25	28/07/25	28/07/25	28/07/25	29/07/25	29/07/25	29/07/25	29/07/25	29/07/25
A-T-026s		22/08/2025	26/08/2025								22/08/2025	
A-T-028s		27/08/2025	27/08/2025								27/08/2025	
A-T-031s		22/08/2025	22/08/2025								22/08/2025	
A-T-032s	29/08/2025			28/08/2025	28/08/2025	29/08/2025	29/08/2025	29/08/2025	28/08/2025	28/08/2025		28/08/2025
A-T-044	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025	21/08/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105		Irish Water		
Project Name	Lot 1, Lough Talt		11 November 2025		
Schedule ID	2024SO105_total		From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
BH-M05	1.00	1.50	B	4	17/07/25		1		1			1	1			EnvLab 25/09650/1
BH-M07	1.00		D	2	26/06/25		1									EnvLab 25/09650/2
BH-M08	1.00		D	2	09/07/25		1									EnvLab 25/09650/3
BH-M08	2.00		D	5	09/07/25		1									EnvLab 25/096504
BH-M08	3.00		D	8	09/07/25				1			1	1			EnvLab 25/09650/5
BH-M09	2.00		D	5	07/07/25		1									EnvLab 25/09650/6
BH-M09	3.00		D	8	07/07/25		1									EnvLab 25/09650/7
BH-M10	2.00		D	5	08/07/25		1									EnvLab 25/09650/8
TP-M100	1.50	1.60	B	2	25/06/25				1			1	1			EnvLab 25/09650/9
TP-M101	1.60	1.70	B	2	25/06/25				1			1	1			EnvLab 25/09650/10
TP-M57	0.90	1.00	B	2	26/06/25				1			1	1			EnvLab 25/09650/11
TP-M64	1.10	1.20	B	3	11/06/25				1			1	1			EnvLab 25/09650/12
TP-M69	0.50	0.60	B	1	16/06/25				1			1	1			EnvLab 25/09650/13
TP-M88	1.40	1.50	B	3	26/06/25		1									EnvLab 25/09650/14
TP-M88	2.40	2.50	B	4	26/06/25		1									EnvLab 25/09650/15
TP-M89	1.50	1.60	B	2	19/06/25		1									EnvLab 25/09650/16
TP-M95	0.90	1.00	B	2	24/06/25				1			1	1			EnvLab 25/09650/17
TP-M97	0.90	1.00	B	2	24/06/25		1									EnvLab 25/09650/18

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/09650
Issue Number: 1 **Date:** 17 September, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly/IDL Lab
Project Name: Lough Talt - 2024SO105
Project Ref: 2024SO105
Order No: PKB21191
Date Samples Received: Not specified
Date Instructions Received: 02/09/25
Date Analysis Completed: 17/09/25

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 25/09650

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/09650/1	25/09650/2	25/09650/3	25/09650/4	25/09650/5	25/09650/6	25/09650/7	Units	Limit of Detection	Method ref
Client Sample No	4	2	2	5	8	5	8			
Client Sample ID	BH-M05	BH-M07	BH-M08	BH-M08	BH-M08	BH-M09	BH-M09			
Depth to Top	1.00	1.00	1.00	2.00	3.00	2.00	3.00			
Depth To Bottom	1.50									
Date Sampled	18-Aug-25	18-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25			
Sample Type	SOIL - B	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D	SOIL - D			
Sample Matrix Code	6AE	6A	6A	6AC	5A	6AE	6A			
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	7.77	-	-	-	8.03	-	-	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	99	-	-	-	14	-	-	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	2500	-	-	-	1000	-	-	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	10.5	6.72	33	15.2	-	28.2	46.7	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/09650

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/09650/8	25/09650/9	25/09650/10	25/09650/11	25/09650/12	25/09650/13	25/09650/14	Units	Limit of Detection	Method ref
Client Sample No	5	2	2	2	3	1	3			
Client Sample ID	BH-M10	TP-M100	TP-M101	TP-M57	TP-M64	TP-M69	TP-M88			
Depth to Top	2.00	1.50	1.60	0.90	1.10	0.50	1.40			
Depth To Bottom		1.60	1.70	1.00	1.20	0.60	1.50			
Date Sampled	19-Aug-25	15-Aug-25	15-Aug-25	14-Aug-25	18-Aug-25	14-Aug-25	15-Aug-25			
Sample Type	SOIL - D	SOIL - B	SOIL - B	SOIL - B	SOIL - B	SOIL - B	SOIL - B			
Sample Matrix Code	6AE	6AE	4A	4A	4A	4A	6AE			
% Stones >10mm$_A$	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	-	6.34	8.66	7.82	6.82	6.99	-	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	-	255	79	36	28	20	-	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	-	890	<200	<200	230	560	-	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	11.6	-	-	-	-	-	72.5	% w/w	0.14	A-T-032s

Envirolab Job Number: 25/09650

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/09650/15	25/09650/16	25/09650/17	25/09650/18				Units	Limit of Detection	Method ref
Client Sample No	4	2	2	2						
Client Sample ID	TP-M88	TP-M89	TP-M95	TP-M97						
Depth to Top	2.40	1.50	0.90	0.90						
Depth To Bottom	2.50	1.60	1.00	1.00						
Date Sampled	15-Aug-25	15-Aug-25	15-Aug-25	15-Aug-25						
Sample Type	SOIL - B	SOIL - B	SOIL - B	SOIL - B						
Sample Matrix Code	6AE	6AE	1A	6AE						
% Stones >10mm$_A$	<0.1	<0.1	<0.1	<0.1				% w/w	0.1	A-T-044
pH$_D^{M\#}$	-	-	8.75	-				pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	-	-	17	-				mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	-	-	<200	-				mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	75.3	72.9	-	16.3				% w/w	0.14	A-T-032s

Report Notes

General

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•The client Sample No, Client Sample ID, Depth to top, Depth to Bottom and Date Sampled are all provided by the client and can affect the validity of results.
•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/09650

Date Received: 02/09/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 16.2

Clients Project No: 2024SO105

Lab Sample ID	25/09650/9	25/09650/10	25/09650/11	25/09650/13	25/09650/14	25/09650/15	25/09650/16	25/09650/17	25/09650/18
Client Sample No	2	2	2	1	3	4	2	2	2
Client Sample ID/Depth	TP-M100 1.50-1.60m	TP-M101 1.60-1.70m	TP-M57 0.90-1.00m	TP-M69 0.50-0.60m	TP-M88 1.40-1.50m	TP-M88 2.40-2.50m	TP-M89 1.50-1.60m	TP-M95 0.90-1.00m	TP-M97 0.90-1.00m
Date Sampled	15/08/25	15/08/25	14/08/25	14/08/25	15/08/25	15/08/25	15/08/25	15/08/25	15/08/25
Deviation Code									
F	✓	✓	✓	✓	✓	✓	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/09650/9	25/09650/10	25/09650/11	25/09650/13	25/09650/14	25/09650/15	25/09650/16	25/09650/17	25/09650/18
Client Sample No	2	2	2	1	3	4	2	2	2
Client Sample ID/Depth	TP-M100 1.50-1.60m	TP-M101 1.60-1.70m	TP-M57 0.90-1.00m	TP-M69 0.50-0.60m	TP-M88 1.40-1.50m	TP-M88 2.40-2.50m	TP-M89 1.50-1.60m	TP-M95 0.90-1.00m	TP-M97 0.90-1.00m
Date Sampled	15/08/25	15/08/25	14/08/25	14/08/25	15/08/25	15/08/25	15/08/25	15/08/25	15/08/25
Sulphate (acid soluble)	✓	✓	✓	✓				✓	
Chloride (water sol 2:1)	✓	✓	✓	✓				✓	
Organic Matter					✓	✓	✓		✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/09650/1	25/09650/2	25/09650/3	25/09650/4	25/09650/5	25/09650/6	25/09650/7	25/09650/8	25/09650/9	25/09650/10	25/09650/11	25/09650/12
Client Sample No	4	2	2	5	8	5	8	5	2	2	2	3
Client Sample ID/Depth	BH-M05 1.00-1.50m	BH-M07 1.00m	BH-M08 1.00m	BH-M08 2.00m	BH-M08 3.00m	BH-M09 2.00m	BH-M09 3.00m	BH-M10 2.00m	TP-M100 1.50-1.60m	TP-M101 1.60-1.70m	TP-M57 0.90-1.00m	TP-M64 1.10-1.20m
Date Sampled	18/08/25	18/08/25	19/08/25	19/08/25	19/08/25	19/08/25	19/08/25	19/08/25	15/08/25	15/08/25	14/08/25	18/08/25
A-T-026s	16/09/2025				16/09/2025				16/09/2025	16/09/2025	17/09/2025	17/09/2025
A-T-028s	15/09/2025				15/09/2025				15/09/2025	15/09/2025	15/09/2025	15/09/2025
A-T-031s	15/09/2025				15/09/2025				15/09/2025	15/09/2025	15/09/2025	15/09/2025
A-T-032s	15/09/2025	15/09/2025	15/09/2025	15/09/2025		15/09/2025	15/09/2025	15/09/2025				
A-T-044	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025

Lab Sample ID	25/09650/13	25/09650/14	25/09650/15	25/09650/16	25/09650/17	25/09650/18
Client Sample No	1	3	4	2	2	2
Client Sample ID/Depth	TP-M69 0.50-0.60m	TP-M88 1.40-1.50m	TP-M88 2.40-2.50m	TP-M89 1.50-1.60m	TP-M95 0.90-1.00m	TP-M97 0.90-1.00m
Date Sampled	14/08/25	15/08/25	15/08/25	15/08/25	15/08/25	15/08/25
A-T-026s	17/09/2025				17/09/2025	
A-T-028s	15/09/2025				15/09/2025	
A-T-031s	15/09/2025				15/09/2025	
A-T-032s		15/09/2025	15/09/2025	15/09/2025		15/09/2025
A-T-044	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025	12/09/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Project ID	2024SO105		Irish Water		
Project Name	Lot 1, Lough Talt		11 November 2025		
Schedule ID	2024SO105_total		From Feb - Oct 2025		

Sample Details							Chemical / Concrete									
Location	Depth (m)	Base Depth	Sample Type	Sample Ref	Date Sampled	Storage	Organic Content	Loss On	Sulphate Total	Sulphate Water	Carbonate Titration	ph	Chloride Content - Water Soluble	Chloride	Env Suite As per Appedix B	Envirolab Report Number / Container. Notes
BH-FR01	**0.00**	1.00	B	1	04/07/25				1			1	1			EnvLab 25/10943/1
BH-M06	**0.00**	1.00	B	1	16/07/25				1			1	1			EnvLab 25/10943/2
BH-M06	2.00	2.50	B	7	16/07/25		1									EnvLab 25/10943/3
BH-M06A	**0.00**	1.00	B	1	11/07/25				1			1	1			EnvLab 25/10943/4
BH-M06A	1.00	1.50	B	4	11/07/25				1			1	1			EnvLab 25/10943/5
BH-M06A	2.00	2.50	B	7	11/07/25		1									EnvLab 25/10943/6
BH-M06A	3.00	3.50	B	10	11/07/25				1			1	1			EnvLab 25/10943/7

0 = test scheduled,
1 = test completed as scheduled,
0* = sample not suitable for scheduled test

envirolab
Hattersley Science & Technology Park
Stockport Road, Hattersley, SK14 3QU

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 25/10943
Issue Number: 1 **Date:** 10 October, 2025

Client:
Irish Drilling Ltd
Old Galway Road
Loughrea
Co. Galway
Ireland
H62 VX39

Project Manager: Damien O'Reilly
Project Name: Lough Talt - 2024SO105
Project Ref: 2024SO105
Order No: PKB21191
Date Samples Received: 29/09/25
Date Instructions Received: 29/09/25
Date Analysis Completed: 10/10/25

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Envirolab Job Number: 25/10943

Client Project Name: Lough Talt - 2024SO105

Client Project Ref: 2024SO105

Lab Sample ID	25/10943/1	25/10943/2	25/10943/3	25/10943/4	25/10943/5	25/10943/6	25/10943/7	Units	Limit of Detection	Method ref
Client Sample No	1	1	7	1	4	7	10			
Client Sample ID	BH-FR01	BH-M06	BH-M06	BH-M06A	BH-M06A	BH-M06A	BH-M06A			
Depth to Top	0.00	0.00	2.00	0.00	1.00	2.00	3.00			
Depth To Bottom	1.00	1.00	2.50	1.00	1.50	2.50	3.50			
Date Sampled	04-Jul-25	16-Jul-25	16-Jul-25	11-Jul-25	11-Jul-25	11-Jul-25	11-Jul-25			
Sample Type	SOIL - B	SOIL - B	SOIL - B	SOIL - B	SOIL - B	SOIL - B	SOIL - B			
Sample Matrix Code	4a	4a	4a	4a	4a	5a	5a			
% Stones >10mm$_A$	6.8	<0.1	4.0	3.3	2.7	2.4	4.1	% w/w	0.1	A-T-044
pH$_D^{M\#}$	8.05	8.14	-	8.06	7.95	-	7.76	pH	0.01	A-T-031s
Chloride (water sol 2:1)$_D^{M\#}$	16	13	-	13	17	-	47	mg/kg	10	A-T-026s
Sulphate (acid soluble)$_D^{M\#}$	730	5900	-	14000	10000	-	990	mg/kg	200	A-T-028s
Organic Matter$_D^{M\#}$	-	-	11.1	-	-	9.29	-	% w/w	0.14	A-T-032s

Report Notes

General

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•The results reported herein relate only to the material supplied to the laboratory.
•The residue of any samples contained within this report, and any received within the same delivery, will be disposed of **four weeks** after the initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of **six months** after the initial Asbestos testing is completed.
•Analytical results reflect the quality of the sample at the time of analysis only.
•Opinions and Interpretations expressed are outside our scope of accreditation.
•A deviating sample report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.
•If a sample is outside of the calibration range or affected by interferences then it may need diluting. This will result in the limit of detection (LOD) being raised.
•Subcontracted Analysis: Please see the appended report for any deviations, current LODs and accreditation status of the test.

Key

Superscript "#"	Accredited to ISO 17025
Superscript "M"	Accredited to MCertS
Superscript "U"	Individual result not accredited
None of the above symbols	Analysis unaccredited
Subscript "A"	Analysis performed on as-received Sample
Subscript "D"	Analysis performed on the dried sample, crushed to pass 2mm sieve.
Subscript "D" on Asbestos	Analysis performed on a dried aliquot of sample provided.
Subscript "^"	Analysis has dependant options against results. Details appear in the comments of your Sample receipt
IS	Insufficient Sample for analysis
US	Unsuitable Sample for analysis
NDP	No Determination Possible
NAD	No Asbestos Detected
Trace	Asbestos found not suitable for Gravimetric Quantification – not enough to accurately weigh.
N/A	Not applicable

Asbestos

Identification: Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.
Stones etc. are not removed from the sample prior to analysis
"Trace Asbestos Identified" will be reported if there is not enough present to verify the type.

Assigned Matrix Codes

1	SAND	6	CLAY/LOAM	A	Contains Stones
2	LOAM	7	OTHER	B	Contains Construction Rubble
3	CLAY	8	Asbestos Bulk (Only Asbestos ID accredited)	C	Contains visible hydrocarbons
4	LOAM/SAND	9	Incinerator Ash (some Metals accredited)	D	Contains glass / metal
5	SAND/CLAY			E	Contains roots / twigs
Note: 7,8,9 matrices are not covered by our ISO 17025 or MCertS accreditation, unless stated above.					

Soil Chemical Analysis:
All results are reported as dry weight (<40°C).
For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.
For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts
All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH by method A-T-007:
For waters, free and visible oils are excluded from the sample used for analysis, so the reported result represents the dissolved phase only.
Results "with Clean up" indicates samples cleaned up with Silica during extraction.

EPH CWG (method A-T-055) from TPH CWG:
EPH CWG results have humics mathematically subtracted through instrument calculation.
Where these humic substances have been identified in any IDs from "TPH CWG with clean up" please note that the concentration is **NOT** included in the quantified results but present in the ID for information.

Electrical Conductivity of water by method A-T-037:
Results greater than 12900µS/cm @ 25^0C / 11550µS/cm @ 20^0C fall outside the calibration range and as such are unaccredited.

Please contact your client manager if you require any further information.

Envirolab Deviating Samples Report

Hattersley Science & Technology Park, Stockport Road, Hattersley, SK14 3QU
Tel. 0161 368 4921 email. ask@envlab.co.uk

Client: Irish Drilling Ltd, Old Galway Road, Loughrea, Co. Galway, Ireland, H62 VX39

Project No: 25/10943

Date Received: 29/09/2025 (am)

Project: Lough Talt - 2024SO105

Cool Box Temperatures (°C): 14.4

Clients Project No: 2024SO105

Lab Sample ID	25/10943/1	25/10943/2	25/10943/3	25/10943/4	25/10943/5	25/10943/6	25/10943/7
Client Sample No	1	1	7	1	4	7	10
Client Sample ID/Depth	BH-FR01 0.00-1.00m	BH-M06 0.00-1.00m	BH-M06 2.00-2.50m	BH-M06A 0.00-1.00m	BH-M06A 1.00-1.50m	BH-M06A 2.00-2.50m	BH-M06A 3.00-3.50m
Date Sampled	04/07/25	16/07/25	16/07/25	11/07/25	11/07/25	11/07/25	11/07/25
Deviation Code							
F	✓	✓	✓	✓	✓	✓	✓

Key
F *Maximum holding time exceeded between sampling date and analysis for analytes listed below*

HOLDING TIME EXCEEDANCES

Lab Sample ID	25/10943/1	25/10943/2	25/10943/3	25/10943/4	25/10943/5	25/10943/6	25/10943/7
Client Sample No	1	1	7	1	4	7	10
Client Sample ID/Depth	BH-FR01 0.00-1.00m	BH-M06 0.00-1.00m	BH-M06 2.00-2.50m	BH-M06A 0.00-1.00m	BH-M06A 1.00-1.50m	BH-M06A 2.00-2.50m	BH-M06A 3.00-3.50m
Date Sampled	04/07/25	16/07/25	16/07/25	11/07/25	11/07/25	11/07/25	11/07/25
Sulphate (acid soluble)	✓	✓		✓	✓		✓
Chloride (water sol 2:1)	✓	✓		✓	✓		✓
Organic Matter			✓			✓	

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Envirolab Analysis Dates

Lab Sample ID	25/10943/1	25/10943/2	25/10943/3	25/10943/4	25/10943/5	25/10943/6	25/10943/7
Client Sample No	1	1	7	1	4	7	10
Client Sample ID/Depth	BH-FR01 0.00-1.00m	BH-M06 0.00-1.00m	BH-M06 2.00-2.50m	BH-M06A 0.00-1.00m	BH-M06A 1.00-1.50m	BH-M06A 2.00-2.50m	BH-M06A 3.00-3.50m
Date Sampled	04/07/25	16/07/25	16/07/25	11/07/25	11/07/25	11/07/25	11/07/25
A-T-026s	07/10/2025	07/10/2025		07/10/2025	07/10/2025		07/10/2025
A-T-028s	07/10/2025	07/10/2025		07/10/2025	07/10/2025		07/10/2025
A-T-031s	07/10/2025	07/10/2025		07/10/2025	07/10/2025		07/10/2025
A-T-032s			09/10/2025			09/10/2025	
A-T-044	10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025	10/10/2025

The above dates are the analysis completion dates, please note that these are not necessarily the date that the analysis was weighed/extracted.

End of Report

Moisture Condition Value at Natural Moisture Content
Summary of Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample Ref	Top	Base	Type	Soil Description	Retained on 20mm sieve %	Moisture Content <20mm %	Moisture Condition Value	Method of Interpretation	Remarks
BH-LG6	7	2.00	2.50	B	Greyish-brown sandy very silty coarse GRAVEL.	36	25.2	1.7	Best fit line	
BH-LR1	1	0.00	1.00	B	Brown slightly gravelly slightly sandy SILT.	1	41.9	3.0	Best fit line	
BH-M03	7	2.00	2.50	B	Dark grey slightly gravelly sandy SILT. Sand is fine.	4	20.2	2.0	Best fit line	
BH-M03A	4	1.00	1.50	B	Dark brown slightly gravelly sandy SILT. Sand is fine.	29	27.3	too wet	Best fit line	
BH-M04	7	2.00	2.50	B	Dark greyish-brown slightly sandy slightly gravelly SILT.	4	22.3	1.5	Best fit line	
BH-M04A	4	1.00	1.50	B	Brown slightly sandy slightly gravelly SILT.	22	24.0	5.1	Best fit line	
BH-M04A	13	3.00	3.50	B	Light brown slightly sandy gravelly SILT.	29	12.4	2.0	Best fit line	
BH-M05	7	2.00	2.50	B	Light brown slightly gravelly slightly sandy SILT.	4	42.0	0.0	Steepest straight line	
BH-M17	5	2.00		D	Light brown silty very gravelly coarse SAND.	15	15.8	2.5	Best fit line	
BH-M17A	4	1.00	1.50	B	Light brown silty very gravelly coarse SAND.	6	15.4	7.2	Best fit line	
BH-M20B	1	0.00	1.00	B	Brown slightly gravelly sandy SILT.	7	28.0	8.2	Best fit line	
BH-M25	7	2.00	2.50	B	Light brown slightly sandy gravelly SILT.	47	35.5		Steepest straight line	Too Wet
BH-R1	7	2.00	2.50	B	Light brown silty very gravelly SAND.	26	21.5	too wet	Steepest straight line	
BH-WH02A	1	0.00	1.00	B	Grey very silty medium SAND and medium GRAVEL.	44	11.5	2.7	Best fit line	
BH-WH1	4	1.50	1.90	B	Dark brown very silty very sandy medium GRAVEL.	35	9.4	4.8	Best fit line	
TP-LG2	3	1.80	2.20	B	Grey slightly sandy gravelly SILT.	18	24.1	2.3	Best fit line	
TP-M02	1	0.60	1.10	B	Orangish-brown very silty very sandy coarse GRAVEL. Sand is medium.	13	16.8	3.0	Best fit line	
TP-M100	2	1.50	1.60	B	Dark brown silty very sandy medium GRAVEL.	0	128.7	4.3	Best fit line	
TP-M11	3	1.50	2.00	B	Orangish-light brown very sandy very silty medium GRAVEL.	23	24.3	1.5	Best fit line	
TP-M17	4	1.50	2.00	D	Greyish-brown silty very sandy medium GRAVEL.	37	10.9	3.0	Best fit line	
TP-M24	5	3.00	3.40	B	Dark grey very sandy very silty medium GRAVEL.	28	15.2	1.9	Best fit line	
TP-M27	3	1.50	1.90	B	Light brown very silty very sandy fine and medium GRAVEL.	27	14.6	2.2	Best fit line	
TP-M34	1	0.50	1.00	B	Brown silty very sandy coarse GRAVEL.	38	8.8	10.8	Best fit line	
TP-M38	1	0.50	1.00	B	Greyish-brown very silty very sandy medium GRAVEL.	9	14.7	2.7	Best fit line	
TP-M47	1	0.50	1.00	B	Light brown very gravelly very silty SAND.	19	20.6	1.3	Best fit line	
TP-M49	2	0.50	1.00	D	Brown silty coarse SAND and medium GRAVEL.	18	24.9	5.7	Best fit line	

Key

Test performed in accordance with BS1377:Part4:1990, clause 5.4 unless annotated otherwise

Date Printed

10/11/2025

Approved By

Administrator

Table

sheet

QC Form R6

Moisture Condition Value at Natural Moisture Content
Summary of Results

Project No.	Project Name
2024SO105	Lot 1, Lough Talt

Hole No.	Sample				Soil Description	Retained on 20mm sieve	Moisture Content <20mm	Moisture Condition Value	Method of Interpretation	Remarks
	Ref	Top	Base	Type		%	%			
TP-M71	1	0.50	1.00	B	Brown silty very gravelly coarse and medium SAND.	8	15.3	9.0	Best fit line	
TP-M75	1	0.50	1.00	B	Black (peaty) slightly gravelly slightly sandy SILT.	1	72.1	3.9	Best fit line	
TP-M84	1	0.50	1.00	B	Brown silty very gravelly coarse SAND.	23	33.7	6.0	Best fit line	
TP-M94	1	0.60	0.70	B	Light brown silty very sandy medium GRAVEL.	34	7.0	12.3	Best fit line	
TP-M96	2	1.20	1.30	B	Dark brown silty gravelly medium SAND.	0	82.3	2.6	Best fit line	
TP-R01	3	2.00	2.50	B	Light brown gravelly very silty medium SAND.	23	17.4	too wet	Best fit line	
TP-R04	1	0.50	1.00	B	Brown slightly gravelly sandy SILT.	8	20.5	4.1	Best fit line	
TP-T04	3	1.50	2.00	B	Brown very silty very gravelly medium SAND.	25	16.2	too wet	Best fit line	

Key

Test performed in accordance with BS1377:Part4:1990, clause 5.4 unless annotated otherwise

Date Printed

10/11/2025

Approved By

Administrator

Table

sheet

QC Form R6

IDL	Moisture Condition Value / Moisture Content Relationship			Job Ref	2024SO105
				Borehole/Pit No.	BH-R2
Site Name	Lot 1, Lough Talt			Sample No.	7
Soil Description	Brown very gravelly very silty medium SAND.			Depth	2
Specimen Reference		Specimen Depth	m	Sample Type	B
Specimen Description				KeyLAB ID	IDL120250423147
Test Method	BS1377:Part4:1990:clause 5.5			Date started	12/05/2025

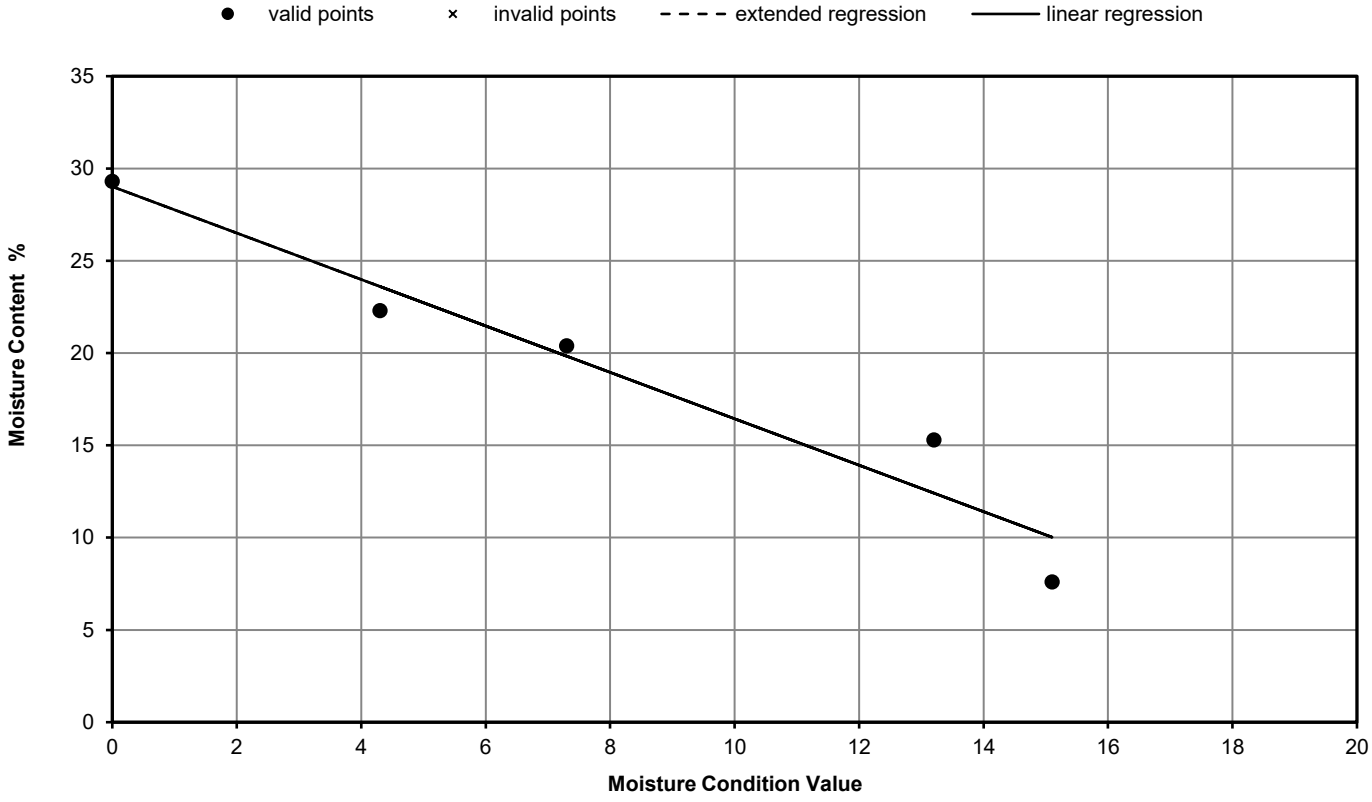
Sample preparation

Amount of material larger than 20mm sieve removed	0	%
Natural Moisture Content of sample	29.2	%
Initial Moisture Content of test sample below 20mm	29.3	%
Composite of fresh and reused material tested		

General remarks

Table of results

MCV Test Number	1	2	3	4	5
Moisture Content, %	29.3	7.6	15.3	22.3	20.4
Moisture Condition Value	0.0	15.1	13.2	4.3	7.3
MCV report	0	15.1	13.2	4.3	7.3
Effective / Valid data point	YES	YES	YES	YES	YES
Method of Interpretation	Best fit	Best fit	Best fit	Best fit	Best fit
Specimen remarks					



Tested	Checked	Approved
AD	DCD	DCD

Lab Sheet Reference : QC Form R7

IDL	Moisture Condition Value / Moisture Content Relationship			Job Ref	2024SO105
				Borehole/Pit No.	TP-LG10
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Brown slightly gravelly slightly sandy SILT. Sand is medium.			Depth	0.5
Specimen Reference		Specimen Depth	m	Sample Type	B
Specimen Description				KeyLAB ID	IDL12025022581
Test Method	BS1377:Part4:1990:clause 5.5			Date started	07/05/2025

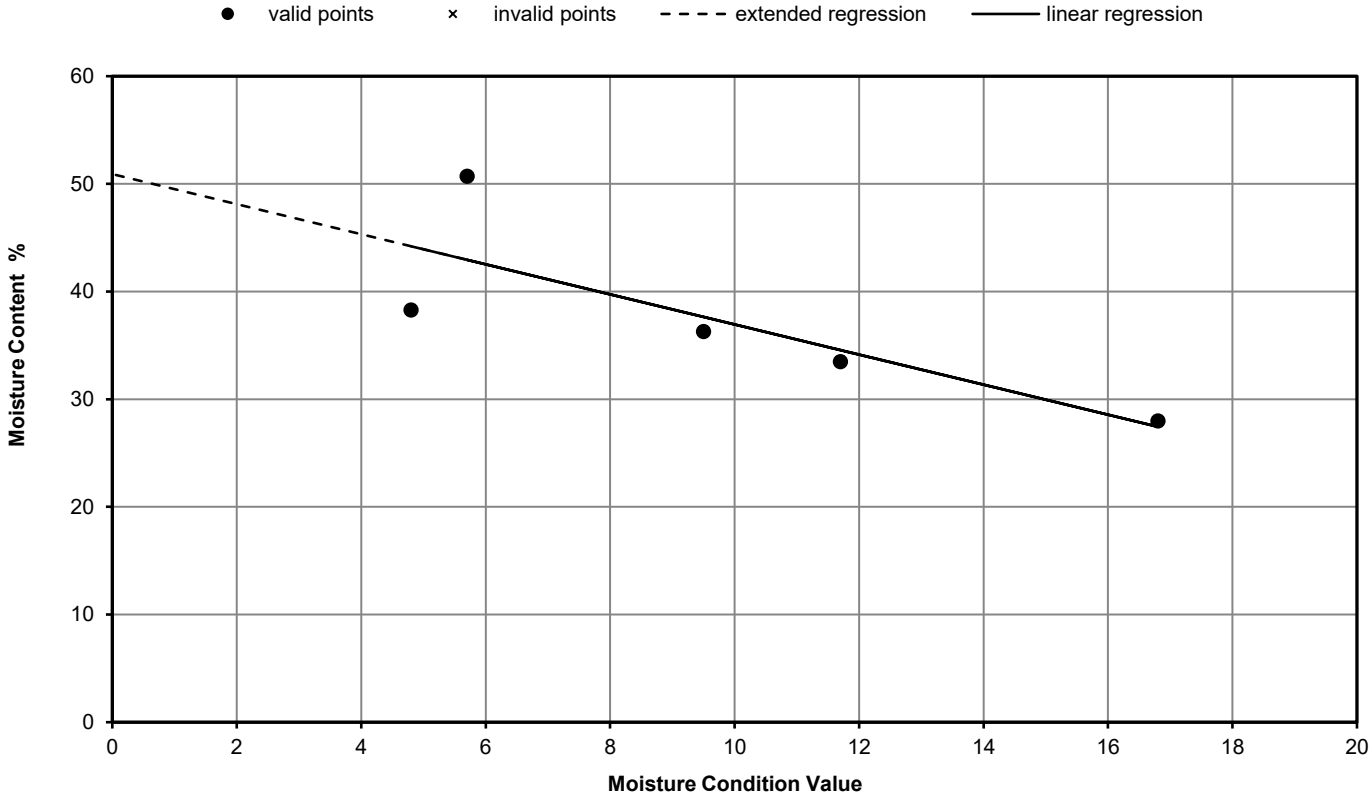
Sample preparation

Amount of material larger than 20mm sieve removed	0	%
Natural Moisture Content of sample	48	%
Initial Moisture Content of test sample below 20mm	50.7	%
Composite of fresh and reused material tested		

General remarks

Table of results

MCV Test Number	1	2	3	4	5
Moisture Content, %	50.7	36.3	33.5	28.0	38.3
Moisture Condition Value	5.7	9.5	11.7	16.8	4.8
MCV report	5.7	9.5	11.7	16.8	4.8
Effective / Valid data point	YES	YES	YES	YES	YES
Method of Interpretation	Best fit	Best fit	Best fit	Best fit	Best fit
Specimen remarks					



Tested	Checked	Approved
AD	DCD	DCD

Lab Sheet Reference : QC Form R7

IDL	Moisture Condition Value / Moisture Content Relationship			Job Ref	2024SO105
				Borehole/Pit No.	TP-LG5
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown slightly gravelly slightly sandy SILT.			Depth	1.4
Specimen Reference		Specimen Depth	m	Sample Type	B
Specimen Description				KeyLAB ID	IDL120250211103
Test Method	BS1377:Part4:1990:clause 5.5			Date started	07/04/2025

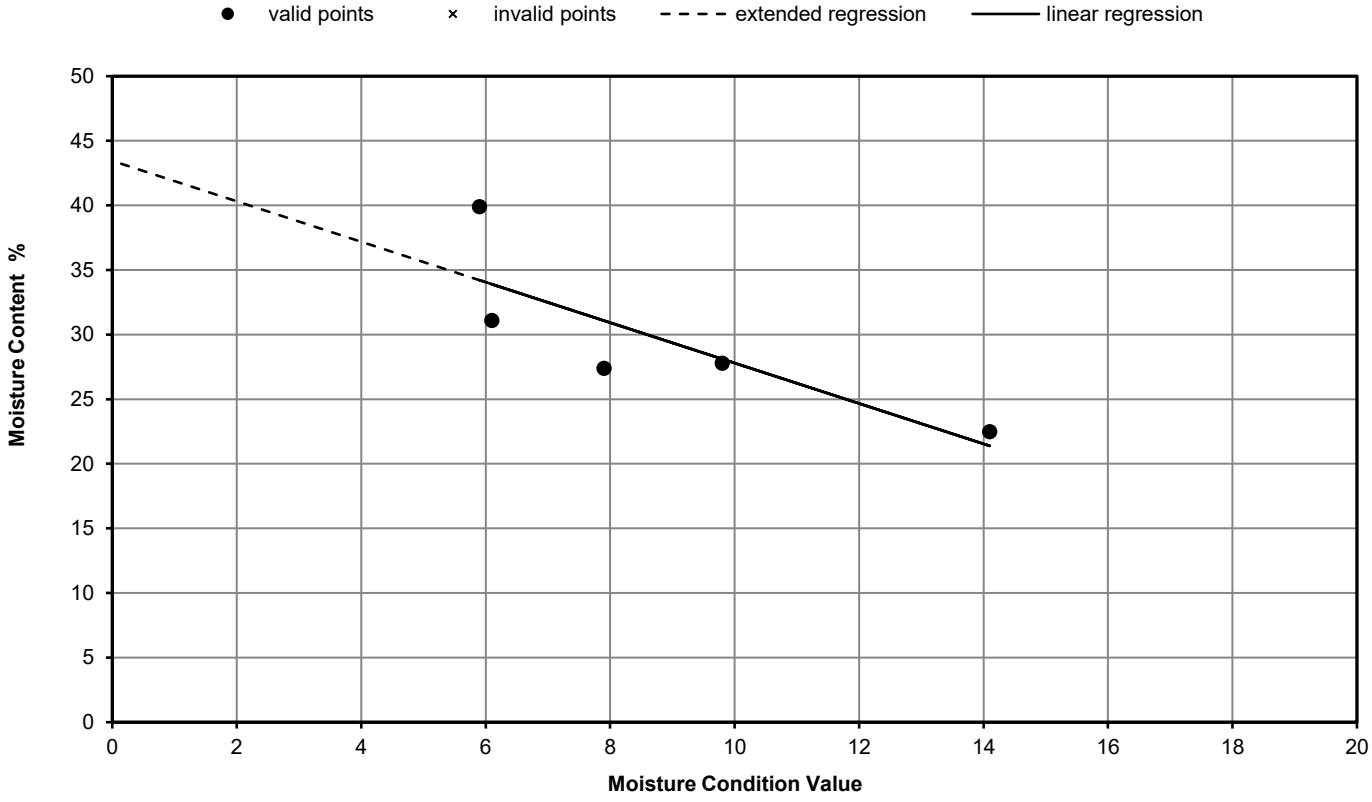
Sample preparation

Amount of material larger than 20mm sieve removed	0	%
Natural Moisture Content of sample	35.5	%
Initial Moisture Content of test sample below 20mm	39.9	%
Composite of fresh and reused material tested		

General remarks

Table of results

MCV Test Number	1	2	3	4	5
Moisture Content, %	39.9	22.5	27.8	27.4	31.1
Moisture Condition Value	5.9	14.1	9.8	7.9	6.1
MCV report	5.9	14.1	9.8	7.9	6.1
Effective / Valid data point	YES	YES	YES	YES	YES
Method of Interpretation	Steepest line	Steepest line	Steepest line	Steepest line	Steepest line
Specimen remarks					



Tested	Checked	Approved
AD	DCD	

Lab Sheet Reference : QC Form R7

IDL	Moisture Condition Value / Moisture Content Relationship			Job Ref	2024SO105
				Borehole/Pit No.	TP-LR2
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Orangish-light-brown slightly gravelly slightly sandy SILT.			Depth	2
Specimen Reference		Specimen Depth	m	Sample Type	B
Specimen Description				KeyLAB ID	IDL120250213114
Test Method	BS1377:Part4:1990:clause 5.5			Date started	07/04/2025

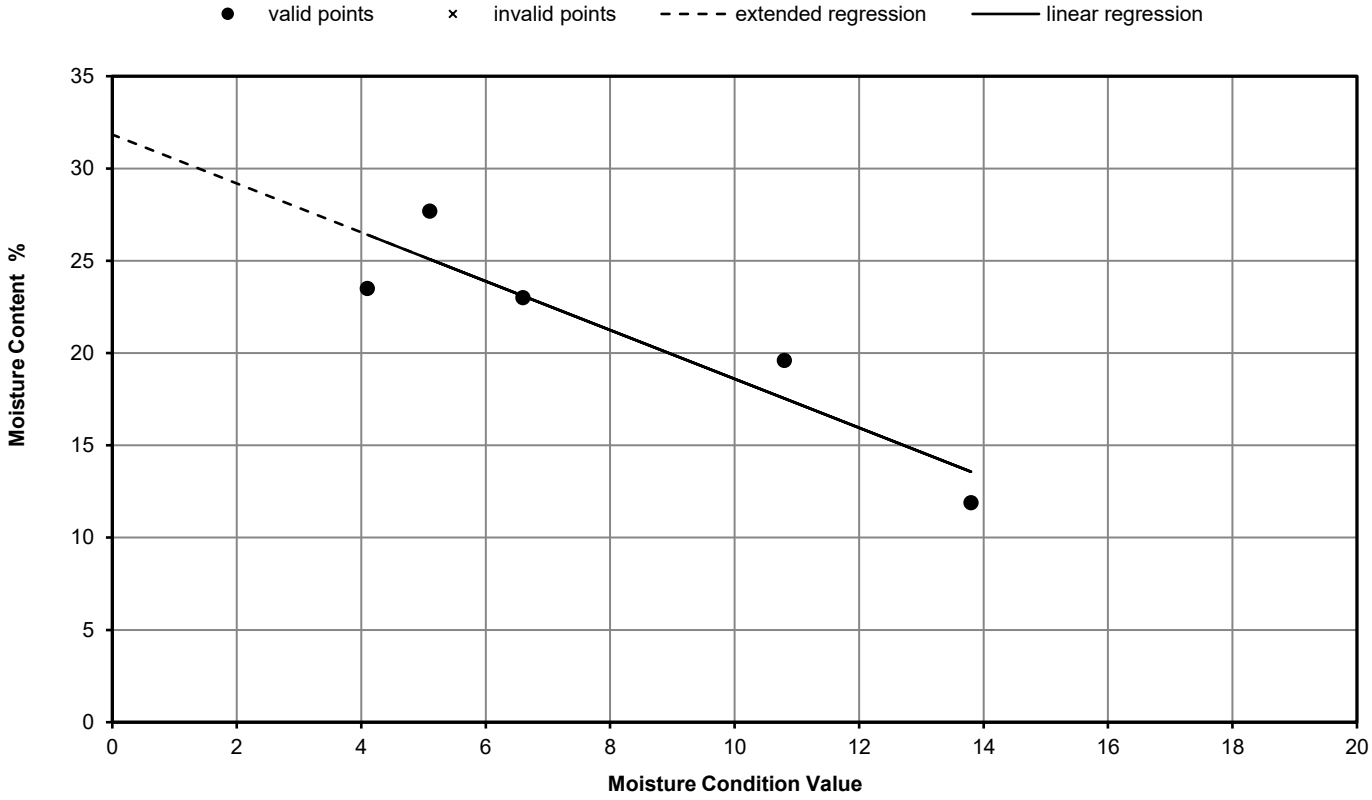
Sample preparation

Amount of material larger than 20mm sieve removed	4	%
Natural Moisture Content of sample	27.8	%
Initial Moisture Content of test sample below 20mm	27.7	%
Composite of fresh and reused material tested		

General remarks

Table of results

MCV Test Number	1	2	3	4	5
Moisture Content, %	27.7	11.9	19.6	23.0	23.5
Moisture Condition Value	5.1	13.8	10.8	6.6	4.1
MCV report	5.1	13.8	10.8	6.6	4.1
Effective / Valid data point	YES	YES	YES	YES	YES
Method of Interpretation	Best fit	Best fit	Best fit	Best fit	Best fit
Specimen remarks					



Tested	Checked	Approved
AD	DCD	

Lab Sheet Reference : QC Form R7

IDL	Moisture Condition Value / Moisture Content Relationship			Job Ref	2024SO105
				Borehole/Pit No.	TP-M61
Site Name	Lot 1, Lough Talt			Sample No.	1
Soil Description	Dark brown very silty very gravelly SAND.			Depth	0.4
Specimen Reference		Specimen Depth	m	Sample Type	B
Specimen Description				KeyLAB ID	IDL1202508076
Test Method	BS1377:Part4:1990:clause 5.5			Date started	28/08/2025

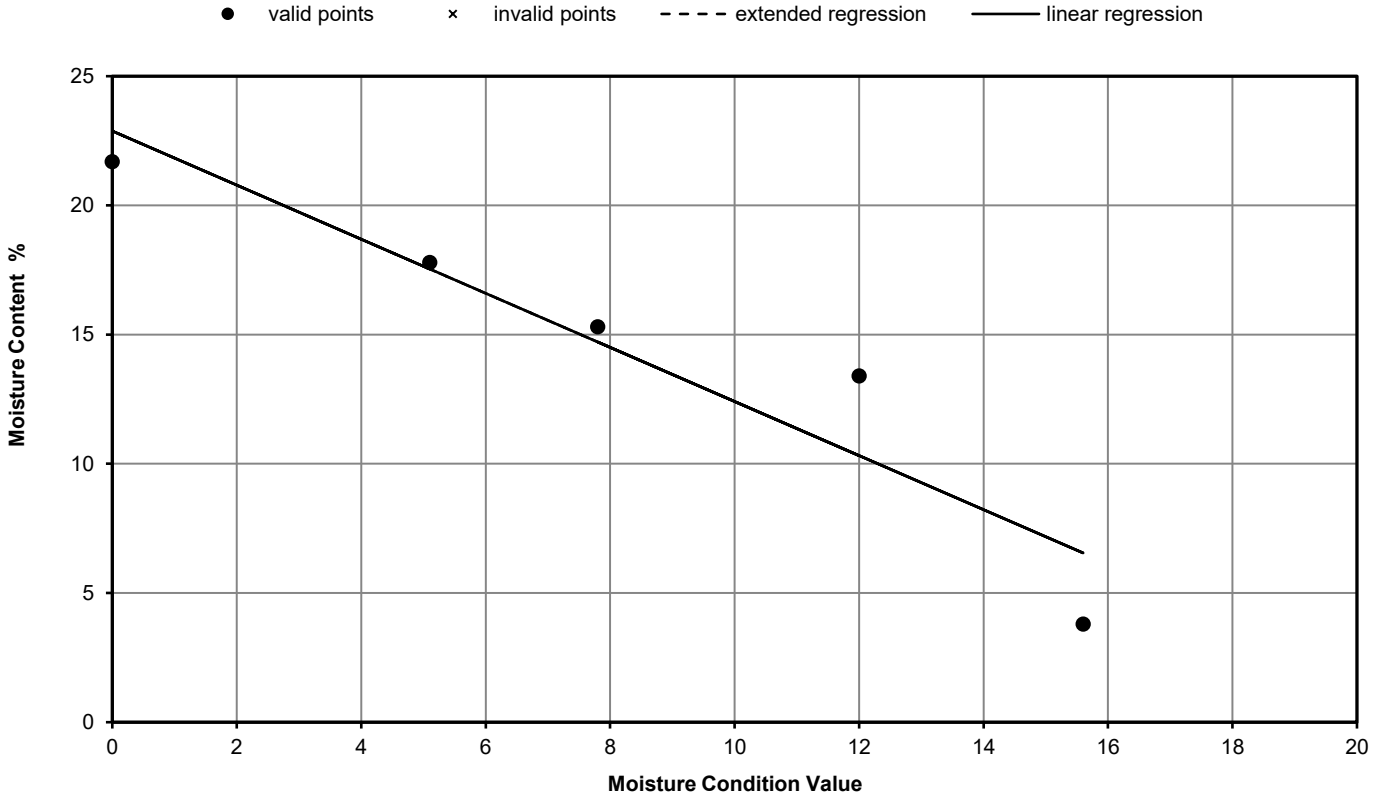
Sample preparation

Amount of material larger than 20mm sieve removed	7	%
Natural Moisture Content of sample	18.1	%
Initial Moisture Content of test sample below 20mm	17.8	%
Composite of fresh and reused material tested		

General remarks

Table of results

MCV Test Number	1	2	3	4	5
Moisture Content, %	17.8	21.7	3.8	15.3	13.4
Moisture Condition Value	5.1	0.0	15.6	7.8	12.0
MCV report					
Effective / Valid data point	YES	YES	YES	YES	YES
Method of Interpretation	Best fit	Best fit	Best fit	Best fit	Best fit
Specimen remarks					



Tested	Checked	Approved
AD	DCD	

Lab Sheet Reference : QC Form R7

IDL	Moisture Condition Value / Moisture Content Relationship			Job Ref	2024SO105
				Borehole/Pit No.	TP-R02
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Light brown very silty very gravelly medium SAND.			Depth	1.5
Specimen Reference		Specimen Depth	m	Sample Type	B
Specimen Description				KeyLAB ID	IDL120250311129
Test Method	BS1377:Part4:1990:clause 5.5			Date started	08/05/2025

Sample preparation

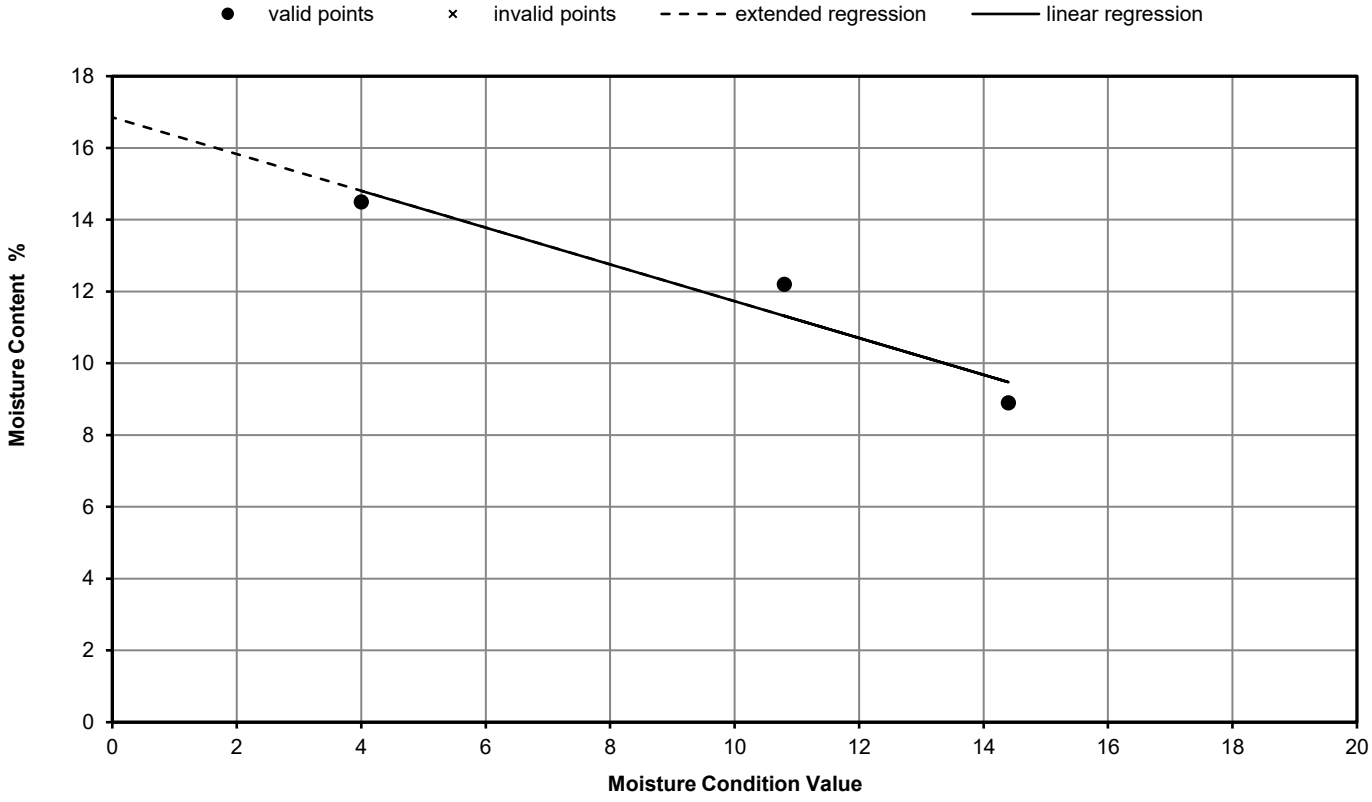
Amount of material larger than 20mm sieve removed	8	%
Natural Moisture Content of sample	11.6	%
Initial Moisture Content of test sample below 20mm	10.8	%
Composite of fresh and reused material tested		

General remarks

Sand sample - limited moisture contents

Table of results

MCV Test Number	1	2	3		
Moisture Content, %	12.2	8.9	14.5		
Moisture Condition Value	10.8	14.4	4.0		
MCV report	10.8	14.4	4		
Effective / Valid data point	YES	YES	YES		
Method of Interpretation	Steepest line	Steepest line	Steepest line	Steepest line	Steepest line
Specimen remarks					



Tested	Checked	Approved
AD	DCD	

Lab Sheet Reference : QC Form R7

IDL	Moisture Condition Value / Moisture Content Relationship			Job Ref	2024SO105
				Borehole/Pit No.	TP-T03
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Brown silty very sandy fine and medium GRAVEL. Sand is coarse.			Depth	2
Specimen Reference		Specimen Depth	m	Sample Type	B
Specimen Description				KeyLAB ID	IDL120250311150
Test Method	BS1377:Part4:1990:clause 5.5			Date started	08/05/2025

Sample preparation

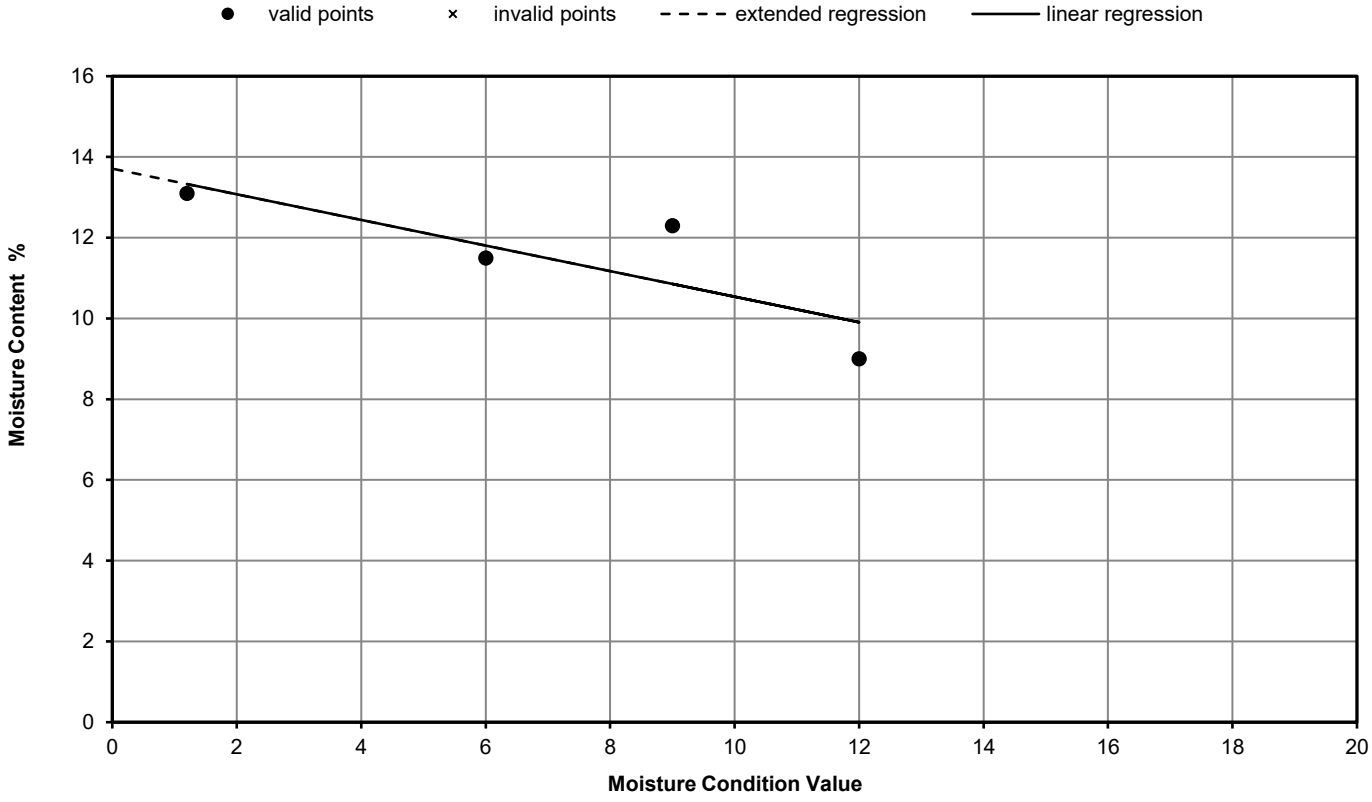
Amount of material larger than 20mm sieve removed	14	%
Natural Moisture Content of sample	10.9	%
Initial Moisture Content of test sample below 20mm	12.3	%
Composite of fresh and reused material tested		

General remarks

Gravel sample - holds limited water

Table of results

MCV Test Number	1	2	3	4	
Moisture Content, %	12.3	9.0	11.5	13.1	
Moisture Condition Value	9.0	12.0	6.0	1.2	
MCV report	9	12	6	1.2	
Effective / Valid data point	YES	YES	YES	YES	
Method of Interpretation	Steepest line	Steepest line	Steepest line	Steepest line	Steepest line
Specimen remarks					



Tested	Checked	Approved
AD	DCD	DCS

Lab Sheet Reference : QC Form R7

IDL	Moisture Condition Value / Moisture Content Relationship			Job Ref	2024SO105
				Borehole/Pit No.	TP-WH01
Site Name	Lot 1, Lough Talt			Sample No.	3
Soil Description	Dark brown slightly gravelly slightly sandy SILT.			Depth	1.5
Specimen Reference		Specimen Depth	m	Sample Type	B
Specimen Description				KeyLAB ID	IDL12025022597
Test Method	BS1377:Part4:1990:clause 5.5			Date started	28/04/2025

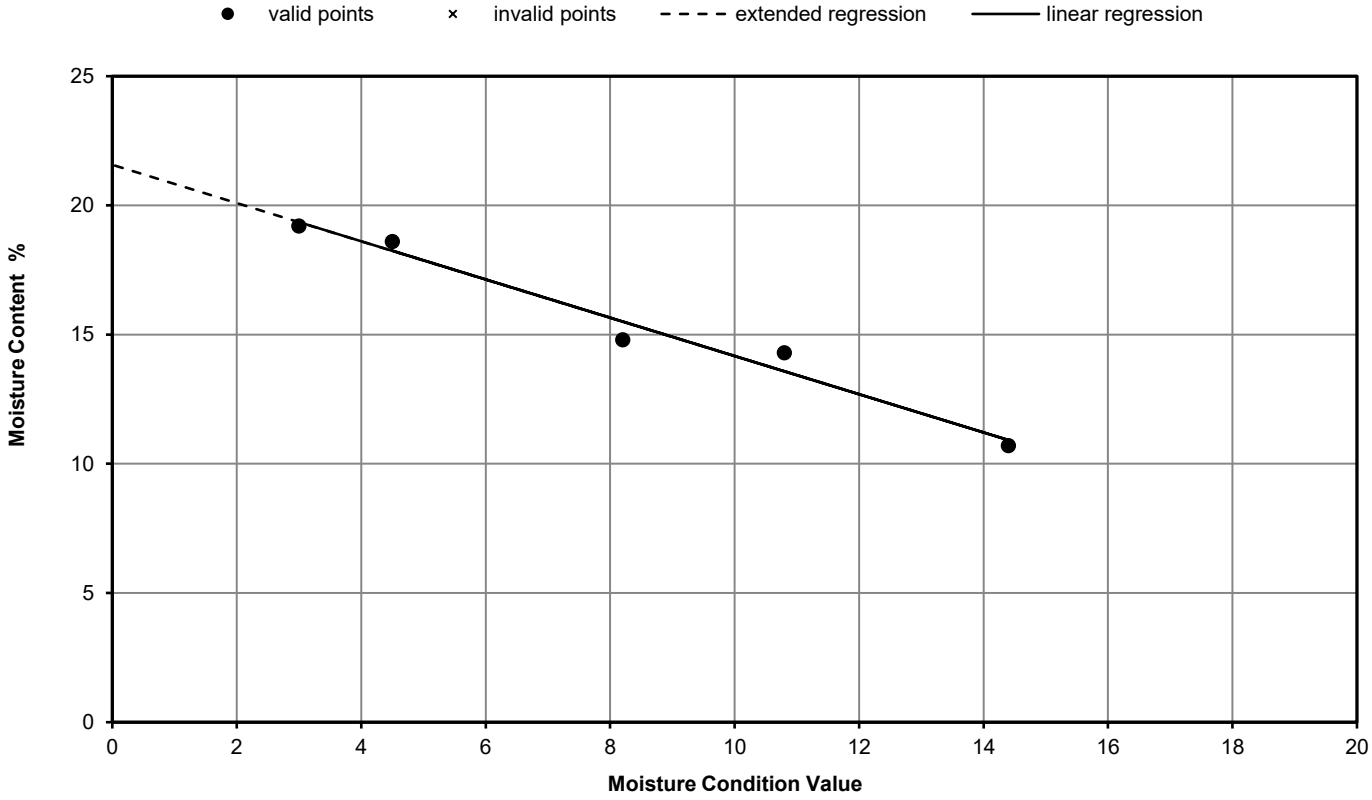
Sample preparation

Amount of material larger than 20mm sieve removed	1	%
Natural Moisture Content of sample	22.1	%
Initial Moisture Content of test sample below 20mm	18.6	%
Composite of fresh and reused material tested		

General remarks

Table of results

MCV Test Number	1	2	3	4	5
Moisture Content, %	18.6	10.7	14.3	14.8	19.2
Moisture Condition Value	4.5	14.4	10.8	8.2	3.0
MCV report	4.5	14.4	10.8	8.2	3
Effective / Valid data point	YES	YES	YES	YES	YES
Method of Interpretation	Best fit	Best fit	Best fit	Best fit	Best fit
Specimen remarks					



Tested	Checked	Approved
AD	DCD	

Lab Sheet Reference : QC Form R7

IDL

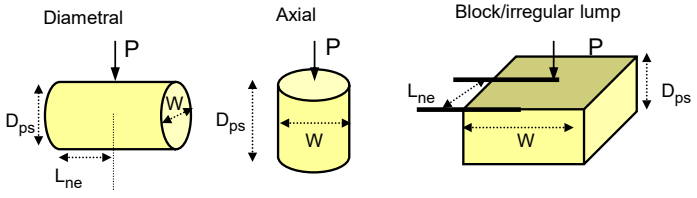
Point Load Strength Index Tests
Summary of Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Borehole No.	Sample			Specimen		Rock Type and Test condition	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index		Remarks (including water content if measured)
	Top Depth	Base Depth	Type	Ref	Top		Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)	
	m	m			m					mm	mm	mm	mm	kN	mm	MPa	MPa	
BH-FR01	3.50	4.7	C	4.2-4.4	4.20		D	U	YES		63.4		63.4	13.8	63.4	3.4	3.8	Strong
BH-FR01	6.30	7.9	C	7.4-7.6	7.40		D	U	YES		63.4		63.4	14.0	63.4	3.5	3.9	Strong
BH-FR02	3.00	3.6	C	3.1-3.35	3.10		D	U	YES		63.4		63.4	12.1	63.4	3.0	3.3	Strong
BH-FR02	6.60	8.2	C	7.5-7.75	7.50		D	U	YES		63.4		63.4	18.9	63.4	4.7	5.2	Very Strong
BH-LG1	2.00	3.5	C	2.1-2.3	2.10		D	U	YES		63.4		63.4	3.3	63.4	0.8	0.9	Weak
BH-LG1	5.00	6.5	C	5.3-5.42	5.30		D	U	YES		63.4		63.4	20.3	63.4	5.0	5.6	Very Strong
BH-LG1	6.50	7.1	C	6.85-7.00	6.85		D	U	YES		63.4		63.4	2.5	63.4	0.6	0.7	Weak
BH-LG2	0.00	2	C	1.7-1.8	1.70		D	U	YES		63.4		63.4	10.0	63.4	2.5	2.8	Strong
BH-LG2	4.10		C	4.1-4.2	4.10		D	U	YES		63.4		63.4	14.9	63.4	3.7	4.1	Very Strong
BH-LG2	6.50	8	C	6.8-6.95	6.80		D	U	YES		63.4		63.4	22.3	63.4	5.6	6.2	Very Strong
BH-LG2	8.00	9.5	C	9.2-9.4	9.20		D	U	YES		63.4		63.4	11.8	63.4	2.9	3.3	Strong
BH-LG2	10.00		C	9.9-10.1	9.90		D	U	YES		63.4		63.4	15.9	63.4	3.9	4.4	Very Strong
BH-LG3A	2.90		C	2.9-3.0	2.90		D	U	YES		63.4		63.4	11.4	63.4	2.8	3.2	Strong
BH-LG3A	3.30	4.8	C	3.8-3.95	3.80		D	U	YES		63.4		63.4	4.5	63.4	1.1	1.3	Medium Strong
BH-LG3A	6.30	7.8	C	7.05-7.23	7.05		D	U	YES		63.4		63.4	18.9	63.4	4.7	5.2	Very Strong
BH-LG3A	7.80	9.4	C	9.24-9.40	9.24		D	U	YES		63.4		63.4	12.4	63.4	3.1	3.4	Strong
BH-LG4	2.60	3.5	C	2.8-2.96	2.80		D	U	YES		63.4		63.4	19.3	63.4	4.8	5.4	Very Strong
BH-LG4	5.00	6.5	C	5.5-5.6	5.50		D	U	YES		63.4		63.4	13.7	63.4	3.4	3.8	Strong
BH-LG4	9.50	11	C	10.0-10.2	10.00		D	U	YES		63.4		63.4	25.5	63.4	6.4	7.1	Very Strong
BH-LG4	12.50	14	C	12.6-12.7	12.60		D	U	YES		63.4		63.4	12.2	63.4	3.0	3.4	Strong

Test Type
D - Diametral, A - Axial, I - Irregular Lump, B - Block
Direction
L - parallel to planes of weakness
P - perpendicular to planes of weakness
U - unknown or random
Dimensions
Dps - Distance between platens (platen separation)
Dps' - at failure (see ISRM note 6)
Lne - Length from platens to nearest free end
W - Width of shortest dimension perpendicular to load, P



Test performed in accordance with ISRM Suggested Methods : 2007, unless noted otherwise
Detailed legend for test and dimensions, based on ISRM, is shown above.
Size factor, F = (De/50)0.45 for all tests.

Date Printed: 10/11/2025

Approved By: Administrator

Table: 1 sheet 1

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39
Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IDL

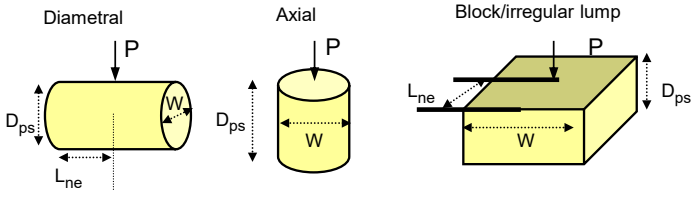
Point Load Strength Index Tests
Summary of Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Borehole No.	Sample			Specimen		Rock Type and Test condition	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index		Remarks (including water content if measured)
	Top Depth	Base Depth	Type	Ref	Top		Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)	
	m	m			m					mm	mm	mm	mm	kN	mm	MPa	MPa	
BH-LG5	2.00	3.5	C	2.7-2.8	2.70		D	U	YES		63.4		63.4	1.5	63.4	0.4	0.4	Weak
BH-LG5	6.80		C	6.8-7.0	6.80		D	U	YES		63.4		63.4	10.0	63.4	2.5	2.8	Strong
BH-LG5	8.00	9.5	C	9.0-9.2	9.00		D	U	YES		63.4		63.4	25.8	63.4	6.4	7.1	Very Strong
BH-LG5	10.90	12.1	C	12.8-12.9	12.80		D	U	YES		63.4		63.4	5.7	63.4	1.4	1.6	Medium Strong
BH-LG6	3.50	5	C	3.9-4.0	3.90		D	U	YES		63.4		63.4	3.6	63.4	0.9	1.0	Medium Strong
BH-LG6	8.00	9.5	C	9.38-9.50	9.35		D	U	YES		63.4		63.4	2.5	63.4	0.6	0.7	Weak
BH-LG6	10.30		C	10.0-10.2	10.00		D	U	YES		63.4		63.4	5.2	63.4	1.3	1.4	Medium Strong
BH-LG6	11.00	12.5	C	12.2-12.35	12.20		D	U	YES		63.4		63.4	9.6	63.4	2.4	2.7	Strong
BH-LG7	1.70	3.2	C	2.4-2.5	2.40		D	U	YES		63.4		63.4	16.2	63.4	4.0	4.5	Very Strong
BH-LG7	4.50		C	4.7-4.9	4.70		D	U	YES		63.4		63.4	13.5	63.4	3.4	3.7	Strong
BH-LG7	4.70	6.3	C	6.0-6.2	6.00		D	U	YES		63.4		63.4	18.8	63.4	4.7	5.2	Very Strong
BH-LR1	3.50	5	C	4.7-4.83	4.70		D	U	YES		63.4		63.4	20.6	63.4	5.1	5.7	Very Strong
BH-LR1	7.50		C	7.4-7.6	7.40		D	U	YES		63.4		63.4	18.3	63.4	4.6	5.1	Very Strong
BH-LR1	9.50	11	C	10.3-10.45	10.30		D	U	YES		63.4		63.4	19.3	63.4	4.8	5.3	Very Strong
BH-LR2	0.00	1.7	C	1.4-1.6	1.40		D	U	YES		63.4		63.4	6.7	63.4	1.7	1.8	Medium Strong
BH-LR2	6.20		C	6.0-6.2	6.00		D	U	YES		63.4		63.4	13.1	63.4	3.3	3.6	Strong
BH-LR2	6.70	8.2	C	7.8-7.9	7.80		D	U	YES		63.4		63.4	8.9	63.4	2.2	2.5	Strong
BH-M01	3.50	5	C	3.3-3.4	3.30		D	U	YES		63.4		63.4	0.1	63.4	0.0	0.0	Extremely Weak
BH-M01	6.50	8	C	6.7-6.9	6.70		D	U	YES		63.4		63.4	15.3	63.4	3.8	4.2	Very Strong
BH-M01	8.00	9.5	C	8.3-8.5	8.30		D	U	YES		63.4		63.4	16.9	63.4	4.2	4.7	Very Strong

Test Type
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Direction
L - parallel to planes of weakness
P - perpendicular to planes of weakness
U - unknown or random
Dimensions
Dps - Distance between platens (platen separation)
Dps' - at failure (see ISRM note 6)
Lne - Length from platens to nearest free end
W - Width of shortest dimension perpendicular to load, P



Test performed in accordance with ISRM Suggested Methods : 2007, unless noted otherwise
Detailed legend for test and dimensions, based on ISRM, is shown above.
Size factor, F = (De/50)0.45 for all tests.

Date Printed: 10/11/2025

Approved By: Administrator

Table: 1 sheet 2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39
Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IDL

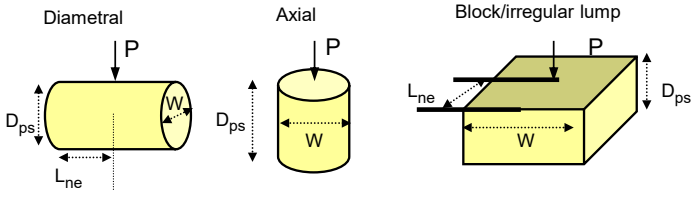
Point Load Strength Index Tests
Summary of Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Borehole No.	Sample			Specimen		Rock Type and Test condition	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index		Remarks (including water content if measured)
	Top Depth	Base Depth	Type	Ref	Top		Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)	
	m	m			m					mm	mm	mm	mm	kN	mm	MPa	MPa	
BH-M02	7.10	8.4	C	7.3-7.4	7.30		D	U	YES		63.4		63.4	2.2	63.4	0.6	0.6	Weak
BH-M02	8.40	10	C	9.7-10.0	9.70		D	U	YES		63.4		63.4	0.1	63.4	0.0	0.0	Extremely Weak
BH-M03	5.00	6.5	C	5.1-5.15	5.10			U	YES		63.4		63.4	17.4	71.5	3.4	4.0	Very Strong
BH-M03	8.90	9.5	C	9.2-9.35	9.20			U	YES		63.4		63.4	0.8	71.5	0.2	0.2	Weak
BH-M03A	2.00	3.5	C	3.2-3.4	3.20			U	YES		63.4		63.4	6.8	71.5	1.3	1.6	Medium Strong
BH-M03A	5.10	6.5	C	5.8-6.0	5.80			U	YES		63.4		63.4	14.3	71.5	2.8	3.3	Strong
BH-M03A	6.50	7.9	C	6.8-7.0	6.80			U	YES		63.4		63.4	16.8	71.5	3.3	3.9	Strong
BH-M04	3.70	5.2	C	4.0-4.15	4.00			U	YES		63.4		63.4	17.3	71.5	3.4	4.0	Very Strong
BH-M04	6.70	8	C	7.85-8.0	7.85			U	YES		63.4		63.4	13.2	71.5	2.6	3.0	Strong
BH-M04A	4.00	4.3	C	4.2-4.3	4.20			U	YES		63.4		63.4	20.1	71.5	3.9	4.6	Very Strong
BH-M04A	10.90	12.4	C	11.3-11.5	11.30			U	YES		63.4		63.4	24.3	71.5	4.7	5.6	Very Strong
BH-M05	6.50	8	C	6.4-6.6	6.40		D	U	YES		63.4		63.4	15.6	63.4	3.9	4.3	Very Strong
BH-M05	8.00	9.5	C	8.2-8.4	8.20		D	U	YES		63.4		63.4	22.9	63.4	5.7	6.3	Very Strong
BH-M05	10.10	11.7	C	10.2-10.3	10.20		D	U	YES		63.4		63.4	14.0	63.4	3.5	3.9	Strong
BH-M06	5.00	6.5	C	6.1-6.3	6.10		D	U	YES		63.4		63.4	18.4	63.4	4.6	5.1	Very Strong
BH-M06	8.00	9.5	C	7.9-8.2	7.90		D	U	YES		63.4		63.4	12.1	63.4	3.0	3.4	Strong
BH-M06A	5.00	6.5	C	6.2-6.3	6.20		D	U	YES		63.4		63.4	20.1	63.4	5.0	5.6	Very Strong
BH-M06A	11.10	12.5	C	12.3-12.45	12.30		D	P	YES		63.4		63.4	21.8	63.4	5.4	6.0	Very Strong
BH-M07	8.00	9.5	C	8.1-8.3	8.10		D	U	YES		63.4		63.4	20.6	63.4	5.1	5.7	Very Strong
BH-M07	10.10	11.7	C	10.8-11.2	10.80		D	U	YES		63.4		63.4	17.4	63.4	4.3	4.8	Very Strong

Test Type
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Direction
L - parallel to planes of weakness
P - perpendicular to planes of weakness
U - unknown or random
Dimensions
Dps - Distance between platens (platen separation)
Dps' - at failure (see ISRM note 6)
Lne - Length from platens to nearest free end
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Detailed legend for test and dimensions, based on ISRM, is shown above.
Size factor, F = (De/50)0.45 for all tests.

Date Printed: 10/11/2025

Approved By: Administrator

Table: 1 sheet 3

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39
Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IDL

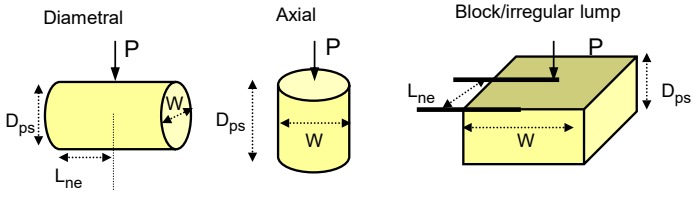
Point Load Strength Index Tests
Summary of Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Borehole No.	Sample			Specimen		Rock Type and Test condition	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index		Remarks (including water content if measured)
	Top Depth	Base Depth	Type	Ref	Top		Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)	
	m	m			m					mm	mm	mm	mm	kN	mm	MPa	MPa	
BH-M08	6.20	7.8	C	6.7-6.8	6.70		D	U	YES		63.4		63.4	13.5	63.4	3.4	3.7	Strong
BH-M08	7.80	9.4	C	8.1-8.3	8.10		D	U	YES		63.4		63.4	17.7	63.4	4.4	4.9	Very Strong
BH-M08	10.10	11.7	C	10.3-10.6	10.30		D	P	YES		63.4		63.4	16.6	63.4	4.1	4.6	Very Strong
BH-M09	3.50	5	C	4.3-4.4	4.30		D	U	YES		63.4		63.4	3.9	63.4	1.0	1.1	Medium Strong
BH-M09	10.10	11.6	C	11.0-11.2	11.00		D	U	YES		63.4		63.4	11.1	63.4	2.8	3.1	Strong
BH-M10	5.00	6.5	C	6.2-6.4	6.20		D	U	YES		63.4		63.4	18.0	63.4	4.5	5.0	Very Strong
BH-M10	10.10	11.6	C	11.0-11.2	11.00		D	U	YES		63.4		63.4	17.1	63.4	4.3	4.7	Very Strong
BH-M13	2.10	3.6	C	2.6-2.7	2.60			U	YES		63.4		63.4	1.5	71.5	0.3	0.3	Weak
BH-M13	5.10	6.6	C	5.6-5.8	5.60		D	U	YES		63.4		63.4	9.7	63.4	2.4	2.7	Strong
BH-M14	0.00	2	C	1.7-1.8	1.70		D	U	YES		63.4		63.4	23.6	63.4	5.9	6.5	Very Strong
BH-M14	8.10	9.5	C	8.8-9.0	8.80		D	U	YES		63.4		63.4	10.8	63.4	2.7	3.0	Strong
BH-M15	6.30	7.8	C	6.6-6.85	6.60		D	U	YES		63.4		63.4	19.2	63.4	4.8	5.3	Very Strong
BH-M15	12.40	13.9	C	12.6-12.8	12.60		D	U	YES		63.4		63.4	32.0	63.4	8.0	8.9	Very Strong
BH-M15	13.90	15.6	C	13.9-114.2	13.90		D	U	YES		63.4		63.4	15.5	63.4	3.9	4.3	Very Strong
BH-M16	9.30	10.6	C	9.7-9.8	9.70		D	U	YES		63.4		63.4	19.6	63.4	4.9	5.4	Very Strong
BH-M16	11.10	12.6	C	11.1-11.35	11.10		D	U	YES		63.4		63.4	18.5	63.4	4.6	5.1	Very Strong
BH-M19	5.00	6	C	5.65-5.90	5.65		D	U	YES		63.4		63.4	13.2	63.4	3.3	3.6	Strong
BH-M19	6.00	7.5	C	6.3-6.5	6.30		D	U	YES		63.4		63.4	12.1	63.4	3.0	3.4	Strong
BH-M22	14.00	15.5	C	15.3-15.5	15.30		D	U	YES		63.4		63.4	34.3	63.4	8.5	9.5	Very Strong
BH-M23	6.50	8	C	7.85-8.0	7.85		D	U	YES		63.4		63.4	36.0	63.4	9.0	10.0	Extremely Strong

Test Type
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Direction
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U - unknown or random
Dimensions
Dps - Distance between platens (platen separation)
Dps' - at failure (see ISRM note 6)
Lne - Length from platens to nearest free end
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Date Printed: 10/11/2025

Approved By: Administrator

Table: 1 sheet 4

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39
Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IDL

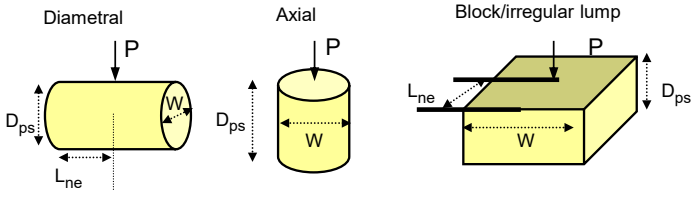
Point Load Strength Index Tests
Summary of Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Borehole No.	Sample			Specimen		Rock Type and Test condition	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index		Remarks (including water content if measured)
	Top Depth	Base Depth	Type	Ref	Top		Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)	
	m	m			m					mm	mm	mm	mm	kN	mm	MPa	MPa	
BH-M23	15.90	17	C	16.8-17.0	16.80		D	U	YES		63.4		63.4	13.6	63.4	3.4	3.8	Strong
BH-M26	5.00	6.5	C	6.35-6.5	6.35		D	U	YES		63.4		63.4	13.6	63.4	3.4	3.8	Strong
BH-M26	12.00	12.6	C	12.05-12.2	12.05		D	U	YES		63.4		63.4	5.6	63.4	1.4	1.5	Medium Strong
BH-M26	14.20	15.6	C	14.9-15.1	14.90		D	U	YES		63.4		63.4	1.8	63.4	0.5	0.5	Weak
BH-M27	3.50	5	C	4.7-5.0	4.70		D	U	YES		63.4		63.4	12.6	63.4	3.1	3.5	Strong
BH-M27	10.90	12.4	C	11.3-11.5	11.30		D	U	YES		63.4		63.4	16.2	63.4	4.0	4.5	Very Strong
BH-M28	5.00	6.5	C	5.0-5.1	5.00		D	U	YES		63.4		63.4	7.0	63.4	1.7	1.9	Medium Strong
BH-M28	6.50	8	C	7.55-7.7	7.55		D	U	YES		63.4		63.4	24.5	63.4	6.1	6.8	Very Strong
BH-M30	5.00	6.5	C	6.4-6.5	6.40		D	U	YES		63.4		63.4	13.4	63.4	3.3	3.7	Strong
BH-M30	6.50	8	C	6.7-6.9	6.70		D	U	YES		63.4		63.4	30.7	63.4	7.6	8.5	Very Strong
BH-M34	3.50	4.5	C	4.3-4.4	4.30		D	U	YES		63.4		63.4	15.8	63.4	3.9	4.4	Very Strong
BH-M34	6.00	7.5	C	7.1-7.2	7.10		D	U	YES		63.4		63.4	10.7	63.4	2.7	3.0	Strong
BH-M35	4.70	6.2	C	5.8-6.1	5.80		D	U	YES		63.4		63.4	33.9	63.4	8.4	9.4	Very Strong
BH-M36	1.40		C	1.6-1.8	1.60		D	U	YES		63.4		63.4	17.6	63.4	4.4	4.9	Very Strong
BH-M36	5.30		C	5.6-5.9	5.60		D	U	YES		63.4		63.4	35.9	63.4	8.9	9.9	Very Strong
BH-M39	2.00	3.5	C	2.8-2.9	2.80		D	U	YES		63.4		63.4	3.6	63.4	0.9	1.0	Medium Strong
BH-M39	3.50	5	C	4.85-5.0	4.85		D	U	YES		63.4		63.4	14.4	63.4	3.6	4.0	Very Strong
BH-M40	3.50	5	C	4.8-5.0	4.80		D	U	YES		63.4		63.4	14.4	63.4	3.6	4.0	Very Strong
BH-M40	5.00	6.5	C	6.4-6.5	6.40		D	U	YES		63.4		63.4	26.1	63.4	6.5	7.2	Very Strong
BH-M41	3.20	4.2	C	3.8-4.0	3.80		D	U	YES		63.4		63.4	15.6	63.4	3.9	4.3	Very Strong

Test Type
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Direction
L - parallel to planes of weakness
P - perpendicular to planes of weakness
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Dimensions
Dps - Distance between platens (platen separation)
Dps' - at failure (see ISRM note 6)
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Test performed in accordance with ISRM Suggested Methods : 2007, unless noted otherwise
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Size factor, F = (De/50)0.45 for all tests.

Date Printed: 10/11/2025

Approved By: Administrator

Table: 1 sheet 5

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39
Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IDL

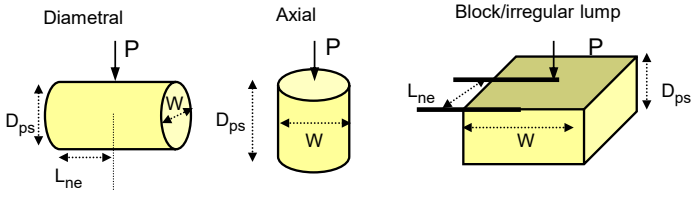
Point Load Strength Index Tests
Summary of Results

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Borehole No.	Sample			Specimen		Rock Type and Test condition	Test Type see ISRM		Failure Valid (Y/N)	Dimensions				Force P	Equivalent diameter, De	Point Load Strength Index		Remarks (including water content if measured)
	Top Depth	Base Depth	Type	Ref	Top		Type (D, A, I, B)	Direction (L, P or U)		Lne	W	Dps	Dps'			Is	Is(50)	
	m	m			m					mm	mm	mm	mm	kN	mm	MPa	MPa	
BH-M41	4.80	6.4	C	5.1-5.3	5.10		D	U	YES		63.4		63.4	9.4	63.4	2.3	2.6	Strong
BH-M42	1.80	3.3	C	2.5-2.6	2.50		D	U	YES		63.4		63.4	11.3	63.4	2.8	3.1	Strong
BH-M42	3.30	4.9	C	4.75-4.90	4.75		D	U	YES		63.4		63.4	14.3	63.4	3.6	4.0	Very Strong
BH-M43	0.00	2	C	1.8-1.85	1.80		D	U	YES		63.4		63.4	1.3	63.4	0.3	0.4	Weak
BH-M43	5.00	6.1	C	5.9-6.1	5.90		D	U	YES		63.4		63.4	10.6	63.4	2.6	2.9	Strong
BH-T01	4.60		C	4.6-4.7	4.60		D	U	YES		63.4		63.4	1.8	63.4	0.5	0.5	Weak
BH-T01	9.50	11	C	10.4-10.6	10.40		D	U	YES		63.4		63.4	26.4	63.4	6.6	7.3	Very Strong
BH-T02	4.90		C	4.9-5.0	4.90		D	U	YES		63.4		63.4	10.9	63.4	2.7	3.0	Strong
BH-T02	9.40	10.7	C	9.6-9.9	9.60		D	U	YES		63.4		63.4	28.4	63.4	7.1	7.9	Very Strong
BH-T03	2.80	4.4	C	3.82-4.10	3.82		D	U	YES		63.4		63.4	21.5	63.4	5.3	5.9	Very Strong
BH-T03	8.90	10.4	C	9.64-9.80	9.64		D	U	YES		63.4		63.4	16.5	63.4	4.1	4.6	Very Strong
BH-T04	1.90	3	C	2.7-2.8	2.70		D	U	YES		63.4		63.4	28.4	63.4	7.1	7.9	Very Strong
BH-T04	7.60	8.9	C	8.5-8.6	8.50		D	U	YES		63.4		63.4	20.7	63.4	5.1	5.7	Very Strong
BH-WH01	6.90	7.8	C	7.65-7.80	7.65		D	U	YES		63.4		63.4	17.6	63.4	4.4	4.9	Very Strong
BH-WH01	9.30	10.9	C	10.2-10.4	10.20		D	U	YES		63.4		63.4	14.6	63.4	3.6	4.0	Very Strong
BH-WH02	4.70	5.8	C	5.6-5.7	5.60		D	U	YES		63.4		63.4	13.5	63.4	3.4	3.7	Strong
BH-WH02	7.40	8.9	C	7.95-8.15	7.95		D	U	YES		63.4		63.4	13.9	63.4	3.4	3.8	Strong

Test Type
D - Diametral, A - Axial, I - Irregular Lump, B - Block
Direction
L - parallel to planes of weakness
P - perpendicular to planes of weakness
U - unknown or random
Dimensions
Dps - Distance between platens (platen separation)
Dps' - at failure (see ISRM note 6)
Lne - Length from platens to nearest free end
W - Width of shortest dimension perpendicular to load, P



Test performed in accordance with ISRM Suggested Methods : 2007, unless noted otherwise
Detailed legend for test and dimensions, based on ISRM, is shown above.
Size factor, F = (De/50)0.45 for all tests.

Date Printed: 10/11/2025

Approved By: Administrator

Table 1 sheet 6

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39
Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IDL

UNIAXIAL COMPRESSION TEST ON ROCK - SUMMARY OF RESULTS

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Hole No.	Sample				Specimen Depth (m)	Specimen Dimensions2			Bulk Density2	Water Content 1	Uniaxial Compression3				Remarks
	Ref	Top	Base	Type		Dia. mm	Length mm	H/D	Mg/m3	%	Condition	Stress Rate MPa/s	Mode of failure	UCS MPa	
BH-FR01		4.70	6.30	C	5.4	63.4	163.4	2.6	2.67		as received	0.2083	F	122.0	Very strong
BH-FR02		3.60	5.10	C	3.8	63.4	162.3	2.6	2.66		as received	0.4664	AC	144.0	Very Strong
BH-LG1		3.50	5.00	C	4.3	63.4	160.0	2.5	2.69		as received	0.3837	F	150.0	Very Strong
BH-LG2		3.50	5.00	C	8.3	63.4	139.8	2.2	2.67		as received	0.2467	AC	68.6	Strong
BH-LG3A		4.80	6.30	C	5.5	63.4	158.6	2.5	2.68		as received	0.4787	F	146.0	Very Strong
BH-LG4		6.50	8.00	C	7.8	63.4	157.2	2.5	2.70		as received	0.4435	F	138.0	Very Strong
BH-LG5		6.50	8.00	C	6.7	63.4	158.2	2.5	2.70		as received	0.3021	F	75.2	Strong
BH-LG5		9.10		C	9.8	63.4	163.3	2.6	2.69		as received	0.1853	F	82.1	Strong
BH-LG6		6.50	8.00	C	6.8	63.4	158.2	2.5	2.71		as received	0.5170	F	133.0	Very Strong
BH-LG7		3.20	4.70	C	5.36	63.4	160.4	2.5	2.66		as received	0.3001	F	122.0	Very Strong
BH-LG7		6.20		C	6	63.4	163.2	2.6	2.68		as received	0.1390	MS	26.1	Medium Strong
BH-LR1		8.00	9.50	C	8	63.4	158.2	2.5	2.68		as received	0.3889	F	124.0	Very Strong
BH-LR1		8.50		C	8.3	63.4	189.1	3.0	2.69		as received	0.0963	AC	60.9	Strong
BH-LR2		5.20	6.70	C	4.64	63.4	156.2	2.5	2.66		as received	0.3213	F	65.2	Strong
BH-LR2		10.20		C	10	63.4	171.1	2.7	2.68		as received	0.1701	F	90.8	Strong
BH-M01		5.00	6.50	C	5.2	63.4	166.7	2.6	2.68		as received	0.1000	AC	26.6	Medium Strong
BH-M02		8.40	10.00	C	9	63.4	168.2	2.7	2.67		as received	0.0614	AC	21.4	Weak
BH-M04		8.90	10.30	C	9.2	63.4	169.1	2.7	2.76		as received	0.2239	AC	66.3	Strong
BH-M04A		6.60	7.80	C	6.6	63.4	167.3	2.6	2.70		as received	0.2201	AC	43.1	Medium Strong
BH-M06		8.00	9.50	C	8.9	63.4	166.7	2.6	2.67		as received	0.1134	S + AC	23.3	Weak
BH-M06A		8.10	9.50	C	8.8	63.4	173.8	2.7	2.66		as received	0.1243	AC	28.4	Medium Strong
BH-M07		6.50	8.00	C	6.8	63.4	171.1	2.7	2.67		as received	0.1573	MS + AC	54.3	Strong
BH-M09		8.00	9.50	C	8.1	63.4	165.9	2.6	2.66		as received	0.0609	S + AC	12.7	Weak

Notes

1 ISRM p87 test 1, water content at 105 ± 3 oC, specimen as tested for UCS

2 ISRM p86 clause (vii), Caliper method used for determination of bulk volume and derivation of bulk density

3 ISRM p153 part 1, determination of Uniaxial Compressive Strength (UCS) of Rock Materials

above notes apply unless annotated otherwise in the remarks

Mode of failure :

S - Single shear MS - multiple shear

AC - Axial cleavage F - Fragmented

Test Specification	Date Printed	Approved By	Table
International Society for Rock Mechanics, The complete ISRM suggested methods for Rock Characterization Testing and Monitoring, 2007	11/11/2025	Administrator	1 sheet 1

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

IDL

UNIAXIAL COMPRESSION TEST ON ROCK - SUMMARY OF RESULTS

Project No.: 2024SO105

Project Name: Lot 1, Lough Talt

Hole No.	Sample				Specimen Depth (m)	Specimen Dimensions2			Bulk Density2	Water Content 1	Uniaxial Compression3				Remarks
	Ref	Top	Base	Type		Dia. mm	Length mm	H/D	Mg/m3	%	Condition	Stress Rate MPa/s	Mode of failure	UCS MPa	
BH-M10		6.50	8.10	C	7.9	63.4	161.6	2.5	2.71		as received	0.1642	F	44.0	Medium Strong
BH-M13		7.00	8.50	C	7	63.4	165.1	2.6	2.66		as received	0.4169	F	133.0	Very Strong
BH-M14		3.50	6.50	C	6.2	63.4	162.3	2.6	2.65		as received	0.3375	AC	89.1	Strong
BH-M15		9.30	10.90	C	9.7	63.4	172.2	2.7	2.74		as received	0.3757	AC	118.0	Very Strong
BH-M16		14.10	15.60	C	14.9	63.4	166.5	2.6	2.65		as received	0.3942	F	91.4	Strong
BH-M23		9.50	11.00	C	10.75	63.4	161.1	2.5	2.58		as received	0.2536	AC	67.7	Strong
BH-M27		7.70	9.30	C	9	63.4	163.3	2.6	2.85		as received	0.2337	S	42.8	Medium Strong
BH-M28		6.50	8.00	C	7.7	63.4	168.0	2.6	2.72		as received	0.2033	F	53.7	Strong
BH-M35		7.00	8.40	C	7.9	63.4	174.3	2.7	2.71		as received	0.2735	F	31.5	Medium Strong
BH-M36		2.70		C	4	63.4	167.1	2.6	2.84		as received	0.2317	AC	39.2	Medium Strong
BH-M39		3.50	5.00	C	4	63.4	170.0	2.7	2.67		as received	0.3987	F	118.0	Very Strong
BH-M40		5.00	6.50	C	5.9	63.4	165.3	2.6	2.66		as received	0.4247	F	160.0	Very Strong
BH-M41		4.80	6.40	C	6	63.4	166.2	2.6	2.63		as received	0.0553	S	28.4	Medium Strong
BH-M43		2.00	3.50	C	3.2	63.4	163.1	2.6	2.68		as received	0.2878	AC	71.1	Strong
BH-T01		11.00	12.50	C	12	63.4	158.2	2.5	2.70		as received	0.1988	MS	98.0	Strong
BH-T02		8.20		C	8.4	63.4	167.5	2.6	2.83		as received	0.0873	AC	42.8	Medium Strong
BH-T02		10.70	12.10	C	10.9	63.4	156.8	2.5	2.78		as received	0.3025	S	69.9	Strong
BH-T03		5.90	7.40	C	6.5	63.4	157.9	2.5	2.79		as received	0.3403	AC	75.2	Strong
BH-T04		6.00	7.60	C	6.3	63.4	158.4	2.5	2.76		as received	0.2190	S	30.9	Medium Strong
BH-WH01		7.80	9.30	C	8.25	63.4	164.2	2.6	2.69		as received	0.5172	F	134.0	Very Strong
BH-WH02		5.80	7.40	C	6.6	63.4	166.0	2.6	2.70		as received	0.3042	AC	80.6	Strong

Notes

1 ISRM p87 test 1, water content at 105 ± 3 oC, specimen as tested for UCS

2 ISRM p86 clause (vii), Caliper method used for determination of bulk volume and derivation of bulk density

3 ISRM p153 part 1, determination of Uniaxial Compressive Strength (UCS) of Rock Materials

above notes apply unless annotated otherwise in the remarks

Mode of failure :

S - Single shear MS - multiple shear

AC - Axial cleavage F - Fragmented

Test Specification	Date Printed	Approved By	Table
International Society for Rock Mechanics, The complete ISRM suggested methods for Rock Characterization Testing and Monitoring, 2007	11/11/2025	DCD Administrator	1 sheet 2

Tested in: Irish Drilling Ltd.(IDL), Old Galway Road, Loughrea, Co. Galway, Ireland. H62VX39

Approved Signatures: Dympna Darcy (DCD) Lab Manager, Declan Joyce (DJ) Chartered Geotechnical Engineer, Ronan Killeen (RK) Quality Manager.

STRUCTURAL SOILS LTD

TEST REPORT

Report No. 752512R.01(00) 1774

Date 15-October-2025 Contract Lot 1, Lough Talt

Client Irish Drilling Limited
Address Old Galway Road
Cuscarrick
Loughrea
Co. Galway
Ireland
For the Attention of Dympna Darcy

Samples submitted by client	04-September-2025	Client Reference	2024SO105
Method of sampling	Unknown	Client Order No.	PKB21785
Testing Started	04-September-2025	Instruction Type	Written
Testing Completed	15-October-2025		

Tests marked 'Not UKAS Accredited' in this report are not included in the UKAS Accreditation Schedule for our Laboratory.

UKAS Accredited Tests

Slake Durability Index in accordance with ISRM 2007

Testing carried out at our Castleford laboroatory

Los Angeles Coefficient (LA) in accordance with BS EN 1097-2:2020

* This clause of BS1377 is no longer the most up to date method due to the publication of ISO17892

Please Note: Remaining samples will be retained for a period of one month from today and will then be disposed of .
Test were undertaken on samples 'as received' unless otherwise stated.
Opinions and interpretations expressed in this report are outside the scope of accreditation for this laboratory.
Results relate only to items tested
This report shall not be reproduced except in full without written permission of SSL Laboratories

Structural Soils Ltd 1a Princess Street Bedminster Bristol BS3 4AG Tel.0117 9471000. e-mail dimitris.xirouchakis@soils.co.uk

TESTING VERIFICATION CERTIFICATE

1774

The test results included in this report are certified as:-

ISSUE STATUS: **FINAL**

In accordance with the Structural Soils Ltd Laboratory Quality Management System, results sheets and summaries of results issued by the laboratory are checked by an approved signatory. The integrity of the test data and results are ensured by control of the computer system employed by the laboratory as part of the Software Verification Program as detailed in the Laboratory Quality Manual.

This testing verification certificate covers all testing compiled on or before the following datetime: **15/10/2025 13:08:33**.

Testing reported after this date is not covered by this Verification Certificate.



Approved Signatory
Alan Frost (Data Quality Manager)

(Head Office)
Bristol Laboratory
Unit 1A, Princess Street
Bedminster
Bristol
BS3 4AG

Castleford Laboratory
The Potteries, Pottery Street
Castleford
West Yorkshire
WF10 1NJ

Hemel Laboratory
18 Frogmore Road
Hemel Hempstead
Hertfordshire
HP3 9RT

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LOS ANGELES COEFFICIENT (LA)

In accordance with BS EN 1097-2:2020

Test Report Ref: **LA.-752512-005**

Sample Details

Sample Description: **Grey LIMESTONE**

Sample Location: **BH-FR01**

Sample ID

Sample Ref:

Sample Type: **C**

Sample Depth (m): **4.70**

Test Details

Size fractions from which the portion was obtained: **10/11.2mm 11.2/14mm**

Test Result

Los Angeles Value (LAV): **17**

STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By		Date
	LUKE FISHER	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

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LOS ANGELES COEFFICIENT (LA)

In accordance with BS EN 1097-2:2020

Test Report Ref: **LA.-752512-001**

Sample Details

Sample Description: **Dark grey LIMESTONE**

Sample Location: **BH-LG7**

Sample ID

Sample Ref:

Sample Type: **C**

Sample Depth (m): **2.60**

Test Details

Size fractions from which the portion was obtained: **10/11.2mm 11.2/14mm**

Test Result

Los Angeles Value (LAV): **21**

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The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By		Date
	LUKE FISHER	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

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LOS ANGELES COEFFICIENT (LA)

In accordance with BS EN 1097-2:2020

Test Report Ref: **LA.-752512-003**

Sample Details

Sample Description: **Grey LIMESTONE**

Sample Location: **BH-M14**

Sample ID

Sample Ref:

Sample Type: **C**

Sample Depth (m): **0.00**

Test Details

Size fractions from which the portion was obtained: **10/11.2mm 11.2/14mm**

Test Result

Los Angeles Value (LAV): **29**

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The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By		Date
	LUKE FISHER	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcText L - AGG - LA - A4P | 752512-LOT-1-LOUGH-TALT.GPJ - v10_01
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LOS ANGELES COEFFICIENT (LA)

In accordance with BS EN 1097-2:2020

Test Report Ref: **LA.-752512-004**

Sample Details

Sample Description: **Grey LIMESTONE**

Sample Location: **BH-M36**

Sample ID

Sample Ref:

Sample Type: **C**

Sample Depth (m): **1.60**

Test Details

Size fractions from which the portion was obtained: **10/11.2mm 11.2/14mm**

Test Result

Los Angeles Value (LAV): **16**

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The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By		Date
	LUKE FISHER	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

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LOS ANGELES COEFFICIENT (LA)

In accordance with BS EN 1097-2:2020

Test Report Ref: **LA.-752512-002**

Sample Details

Sample Description: **Grey LIMESTONE**

Sample Location: **BH-M43**

Sample ID

Sample Ref:

Sample Type: **C**

Sample Depth (m): **0.00**

Test Details

Size fractions from which the portion was obtained: **10/11.2mm 11.2/14mm**

Test Result

Los Angeles Value (LAV): **20**

STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By		Date
	LUKE FISHER	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

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TEST REPORT

SLAKE DURABILITY INDEX

In accordance with ISRM 2007

Location ID: **BH-FR02**

Sample Ref:

Sample Type: **C**

Depth (m): **5.10**

Sample Description: **Grey LIMESTONE**

Slaking Fluid Used: **Tap water**

Slaking Fluid Temperature (°C): **20**

First Cycle

Slake Durability (%): **99.6**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

Second Cycle

Slake Durability (%): **99.4**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

STRUCTURAL SOILS
1a Princess Street
Bedminster
Bristol
BS3 4AG

Compiled By		Date
Francesca Bennett	FRANCESCA BENNETT	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcText L - SLAKE DURABILITY - A4P | 752512-LOT-1-LOUGH-TALT.GPJ - v10_01.
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TEST REPORT

SLAKE DURABILITY INDEX

In accordance with ISRM 2007

Location ID: **BH-LG2**

Sample Ref:

Sample Type: **C**

Depth (m): **2.70**

Sample Description: **Greyish brown LIMESTONE**

Slaking Fluid Used: **Tap water**

Slaking Fluid Temperature (°C): **20**

First Cycle

Slake Durability (%): **99.2**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

Second Cycle

Slake Durability (%): **98.8**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

STRUCTURAL SOILS
1a Princess Street
Bedminster
Bristol
BS3 4AG

Compiled By		Date
Francesca Bennett	FRANCESCA BENNETT	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcText L - SLAKE DURABILITY - A4P | 752512-LOT-1-LOUGH-TALT.GPJ - v10_01.
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TEST REPORT

SLAKE DURABILITY INDEX

In accordance with ISRM 2007

Location ID: **BH-LG6**

Sample Ref:

Sample Type: **C**

Depth (m): **3.60**

Sample Description: **Grey LIMESTONE**

Slaking Fluid Used: **Tap water**

Slaking Fluid Temperature (°C): **20**

First Cycle

Slake Durability (%): **99.2**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

Second Cycle

Slake Durability (%): **98.8**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

STRUCTURAL SOILS
1a Princess Street
Bedminster
Bristol
BS3 4AG

Compiled By		Date
Francesca Bennett	FRANCESCA BENNETT	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcText L - SLAKE DURABILITY - A4P | 752512-LOT-1-LOUGH-TALT.GPJ - v10_01.
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TEST REPORT

SLAKE DURABILITY INDEX

In accordance with ISRM 2007

Location ID: **BH-LR2**

Sample Ref:

Sample Type: **C**

Depth (m): **2.70**

Sample Description: **Grey LIMESTONE**

Slaking Fluid Used: **Tap water**

Slaking Fluid Temperature (°C): **20**

First Cycle

Slake Durability (%): **98.2**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

Second Cycle

Slake Durability (%): **96.0**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

STRUCTURAL SOILS
1a Princess Street
Bedminster
Bristol
BS3 4AG

Compiled By		Date
Francesca Bennett	FRANCESCA BENNETT	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcText L - SLAKE DURABILITY - A4P | 752512-LOT-1-LOUGH-TALT.GPJ - v10_01.
Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 15/10/25 - 13:06 | AF3 |

TEST REPORT

SLAKE DURABILITY INDEX

In accordance with ISRM 2007

Location ID: **BH-M13**

Sample Ref:

Sample Type: **C**

Depth (m): **2.10**

Sample Description: **Grey LIMESTONE**

Slaking Fluid Used: **Tap water**

Slaking Fluid Temperature (°C): **20**

First Cycle

Slake Durability (%): **99.5**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

Second Cycle

Slake Durability (%): **99.3**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

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1a Princess Street
Bedminster
Bristol
BS3 4AG

Compiled By		Date
Francesca Bennett	FRANCESCA BENNETT	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcText L - SLAKE DURABILITY - A4P | 752512-LOT-1-LOUGH-TALT.GPJ - v10_01.
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TEST REPORT

SLAKE DURABILITY INDEX

In accordance with ISRM 2007

Location ID: **BH-M40**

Sample Ref:

Sample Type: **C**

Depth (m): **0.00**

Sample Description: **Grey LIMESTONE**

Slaking Fluid Used: **Tap water**

Slaking Fluid Temperature (°C): **20**

First Cycle

Slake Durability (%): **99.3**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

Second Cycle

Slake Durability (%): **99.0**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

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1a Princess Street
Bedminster
Bristol
BS3 4AG

Compiled By		Date
Francesca Bennett	FRANCESCA BENNETT	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcText L - SLAKE DURABILITY - A4P | 752512-LOT-1-LOUGH-TALT.GPJ - v10_01.
Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 15/10/25 - 13:06 | AF3 |

TEST REPORT

SLAKE DURABILITY INDEX

In accordance with ISRM 2007

Location ID: **BH-T02**

Sample Ref:

Sample Type: **C**

Depth (m): **5.20**

Sample Description: **Dark grey LIMESTONE**

Slaking Fluid Used: **Tap water**

Slaking Fluid Temperature (°C): **20**

First Cycle

Slake Durability (%): **99.4**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

Second Cycle

Slake Durability (%): **99.1**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

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BS3 4AG

Compiled By		Date
Francesca Bennett	FRANCESCA BENNETT	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcText L - SLAKE DURABILITY - A4P | 752512-LOT-1-LOUGH-TALT.GPJ - v10_01.
Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 15/10/25 - 13:06 | AF3 |

TEST REPORT

SLAKE DURABILITY INDEX

In accordance with ISRM 2007

Location ID: **BH-WH02**

Sample Ref:

Sample Type: **C**

Depth (m): **5.80**

Sample Description: **Grey LIMESTONE**

Slaking Fluid Used: **Tap water**

Slaking Fluid Temperature (°C): **20**

First Cycle

Slake Durability (%): **99.6**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

Second Cycle

Slake Durability (%): **99.4**

Description of Fragments in Drum: **Sub-angular**

Description of Material Passing Drum: **Fine sand and silt**

STRUCTURAL SOILS
1a Princess Street
Bedminster
Bristol
BS3 4AG

Compiled By		Date
Francesca Bennett	FRANCESCA BENNETT	15/10/25
Contract: **Lot 1, Lough Talt**	Job No: **752512**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | GrfcText L - SLAKE DURABILITY - A4P | 752512-LOT-1-LOUGH-TALT.GPJ - v10_01.
Structural Soils Ltd, Branch Office - Bristol Lab: 1a Princess Street, Bedminster, Bristol, BS3 4AG. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 15/10/25 - 13:06 | AF3 |

AGGREGATE TEST REPORT

DETERMINATION OF THE RESISTANCE TO FRAGMENTATION BY THE LOS ANGELES TEST METHOD

Client:	Irish Drilling Limited	BHP Ref. No.:	25/07/1095
	Loughrea	Order No:	PKB21628
	Galway	Date Received:	03/07/2025
	Galway	Date Tested:	20/07/2025
F.A.O.:	Dympna Darcy	Design-execution Standard:	ISRM
Project:	Lot 1, Lough Talt (2024SO105)		

Sampling Information

Material:	Geotechnical Investigation and Testing of Rock		
Client Reference:	2024SO105: BH-T103: 2.80 - 4.40M		
Source of Material:	On Site	Date of Sampling:	02/07/2025

Test Information

EN 1097-2:2020

Method of Preparation	Riffling
Nominal Size of Test Aggregate:	14mm
Los Angeles Coefficient (LA):	16

Remarks:

Sampling carried out by:	Client
Sampling certificate provided	No
Deviation from Test Method:	No
Comments associated with the test:	None

Approved By:
Seamus O' Connell
Laboratory Technical Manager

Signature:

Issue Date: 30/07/2025

Tested by BHP Laboratories, New Road, Thomondgate, Limerick. Phone: (061) 455399 Email: jamespurcell@bhp.ie

This test report shall not be duplicated in full without the permission of the test laboratory. Information identifying the 'Client', 'FAO', 'Project', 'Location Reference', 'Item', 'Test Specification' and 'Order No' has been provided by the customer . Results apply only to the sample tested and where the laboratory is not responsible for sampling, result apply to the sample as received. Sampling is outside the scope of accreditation.

SOIL TEST REPORT

DETERMINATION OF SLAKE DURABILITY

Client:	Irish Drilling Limited Loughrea Galway Galway	BHP Ref. No.: Order No: Date Received: Date Tested:	25/07/1096 PKB21628 03/07/2025 23/07/2025
F.A.O.:	Dympna Darcy	Design-execution Standard:	ISRM
Project:	Lot 1, Lough Talt (2024SO105)		

Sampling Information

Material:	Geotechnical Investigation and Testing of Rock		
Client Reference:	2024SO105: BH-T103: 2.80 - 4.40M		
Source of Material:	On Site	Date of Sampling:	02/07/2025

Test Information

ASTM D4644: 2016

Water Content as Received (%)	0.2%
Start Date of Test	15/07/2025
End Date of Test	23/07/2025
Tempearture of Test °C	20.1
Types Retained in Drum	Type I
Slake Durability 1st Cycle (%)	99.7
Slake Durability 2nd Cycle (%)	99.4
Slake Durability Index (%)	99.4

Sample Before Test	Sample After Test
	

Remarks:

Sampling carried out by:	Client
Deviation from Test Method:	No
Comments associated with the test:	None

Approved By:
Seamus O' Connell
Laboratory Technical Manager

Signature:

Issue Date: 30/07/2025

Tested by BHP Laboratories, New Road, Thomondgate, Limerick. Phone: (061) 455399 Email: jamespurcell@bhp.ie

This test report shall not be duplicated in full without the permission of the test laboratory. Information identifying the 'Client', 'FAO', 'Project', 'Location Reference', 'Item', 'Test Specification' and 'Order No' has been provided by the customer . Results apply only to the sample tested and where the laboratory is not responsible for sampling, result apply to the sample as received. Sampling is outside the scope of accreditation.

Appendix 15
Photographs (Trial Pits)



Figure 1 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG01(1).JPG



Figure 3 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG02(1).JPG

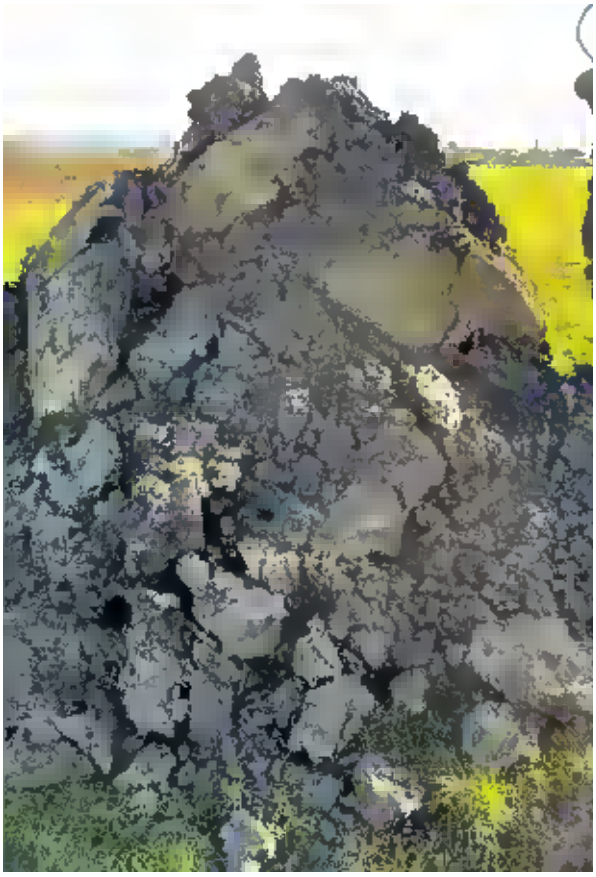


Figure 2 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG01(2).JPG



Figure 4 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG02(2).JPG



Figure 5 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG03(1).JPG



Figure 7 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG04(1).JPG



Figure 6 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG03(2).JPG



Figure 8 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG04(2).JPG



Figure 9 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG05(1).JPG



Figure 11 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG06(2).JPG



Figure 10 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG05(2).JPG

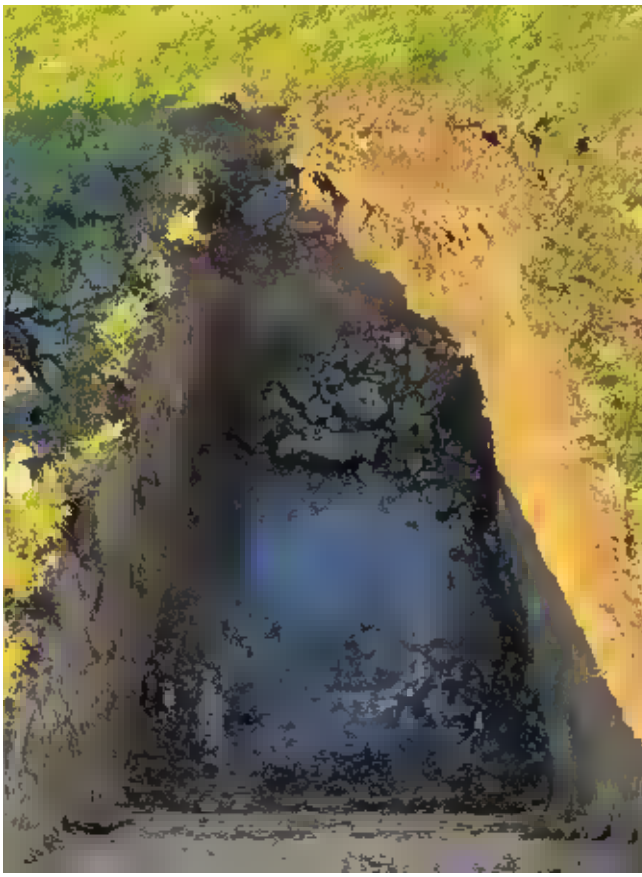


Figure 12 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG06(3).JPG



Figure 13 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG07(1).JPG



Figure 15 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG08(1).JPG



Figure 14 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG07(2).JPG



Figure 16 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG08(2).JPG



Figure 17 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG09(1).JPG



Figure 19 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG10(1).JPG



Figure 18 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG09(2).JPG



Figure 20 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP LG10(2).JPG



Figure 21 H:\2024\24SO105_LoughTalt\TP LR 01(1).JPG



Figure 23 H:\2024\24SO105_LoughTalt\TP LR 02(1).JPG



Figure 22 H:\2024\24SO105_LoughTalt\TP LR 01(2).JPG



Figure 24 H:\2024\24SO105_LoughTalt\TP LR 02(2).JPG



Figure 25 H:\2024\24SO105_LoughTalt\TP LR 03(1).JPG



Figure 26 H:\2024\24SO105_LoughTalt\TP LR 03(2).JPG



Figure 27 H:\2024\24SO105_LoughTalt\TP LR 04(1).JPG



Figure 28 H:\2024\24SO105_LoughTalt\TP LR 04(2).JPG



Figure 29 H:\2024\24SO105_LoughTalt\TP LR 05(1).JPG



Figure 30 H:\2024\24SO105_LoughTalt\TP LR 05(2).JPG



Figure 31 H:\2024\24SO105_LoughTalt\TP LR 06(1).JPG



Figure 32 H:\2024\24SO105_LoughTalt\TP LR 06(2).JPG



Figure 33 H:\2024\24SO105_LoughTalt\TP M01(1).JPG



Figure 35 H:\2024\24SO105_LoughTalt\TP M02(1).JPG



Figure 34 H:\2024\24SO105_LoughTalt\TP M01(2).JPG



Figure 36 H:\2024\24SO105_LoughTalt\TP M02(2).JPG

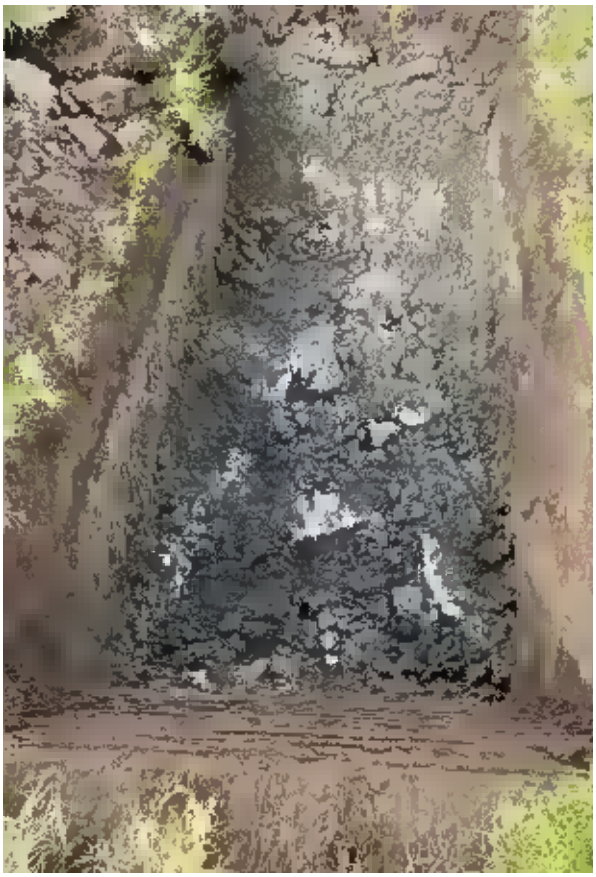


Figure 37 H:\2024\24SO105_LoughTalt\TP M03(1).JPG



Figure 39 H:\2024\24SO105_LoughTalt\TP M04(1).JPG

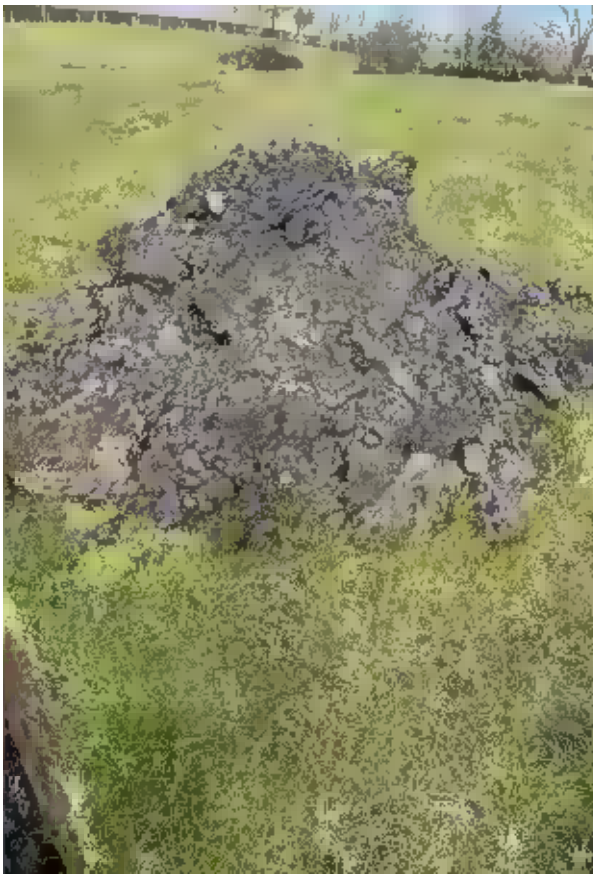


Figure 38 H:\2024\24SO105_LoughTalt\TP M03(2).JPG



Figure 40 H:\2024\24SO105_LoughTalt\TP M04(2).JPG



Figure 41 H:\2024\24SO105_LoughTalt\TP M05(1).JPG



Figure 43 H:\2024\24SO105_LoughTalt\TP M06(1).JPG



Figure 42 H:\2024\24SO105_LoughTalt\TP M05(2).JPG



Figure 44 H:\2024\24SO105_LoughTalt\TP M06(2).JPG



Figure 45 H:\2024\24SO105_LoughTalt\TP M07(1).JPG



Figure 47 H:\2024\24SO105_LoughTalt\TP M08(1).JPG



Figure 46 H:\2024\24SO105_LoughTalt\TP M07(2).JPG

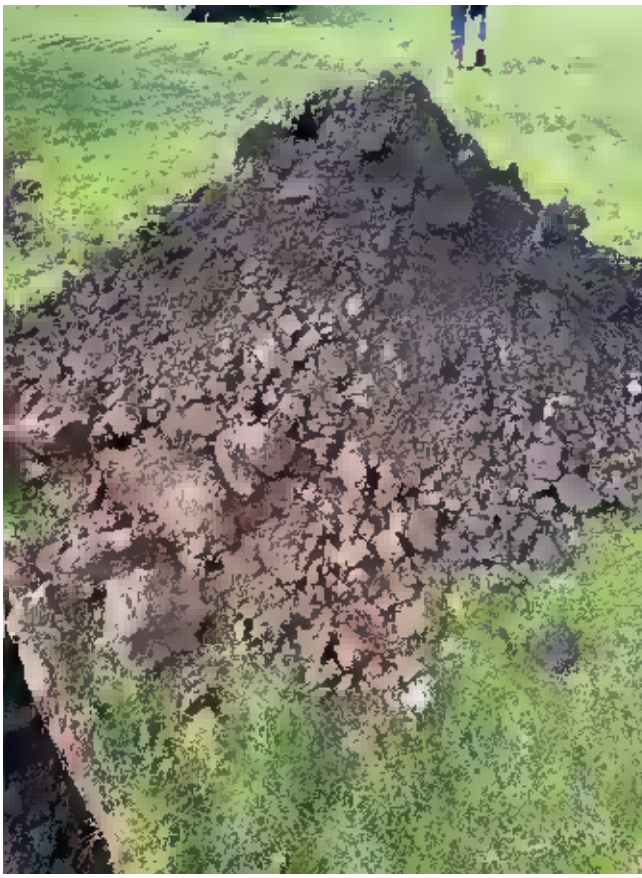


Figure 48 H:\2024\24SO105_LoughTalt\TP M08(2).JPG



Figure 49 H:\2024\24SO105_LoughTalt\TP M09(1).JPG



Figure 51 H:\2024\24SO105_LoughTalt\TP M10(1).JPG



Figure 50 H:\2024\24SO105_LoughTalt\TP M09(2).JPG



Figure 52 H:\2024\24SO105_LoughTalt\TP M10(2).JPG

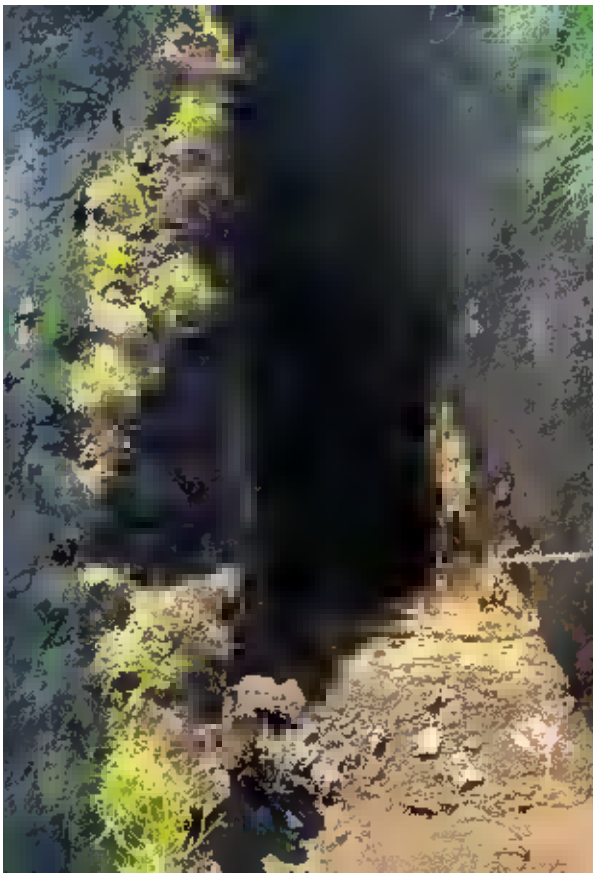


Figure 53 H:\2024\24SO105_LoughTalt\TP M11(1).JPG



Figure 54 H:\2024\24SO105_LoughTalt\TP M11(2).JPG



Figure 55 H:\2024\24SO105_LoughTalt\TP M12(1).JPG



Figure 56 H:\2024\24SO105_LoughTalt\TP M12(2).JPG



Figure 57 H:\2024\24SO105_LoughTalt\TP M13(1).JPG



Figure 59 H:\2024\24SO105_LoughTalt\TP M14(1).JPG



Figure 58 H:\2024\24SO105_LoughTalt\TP M13(2).JPG



Figure 60 H:\2024\24SO105_LoughTalt\TP M14(2).JPG



Figure 61 H:\2024\24SO105_LoughTalt\TP M15(1).JPG



Figure 63 H:\2024\24SO105_LoughTalt\Tp M15..jpg

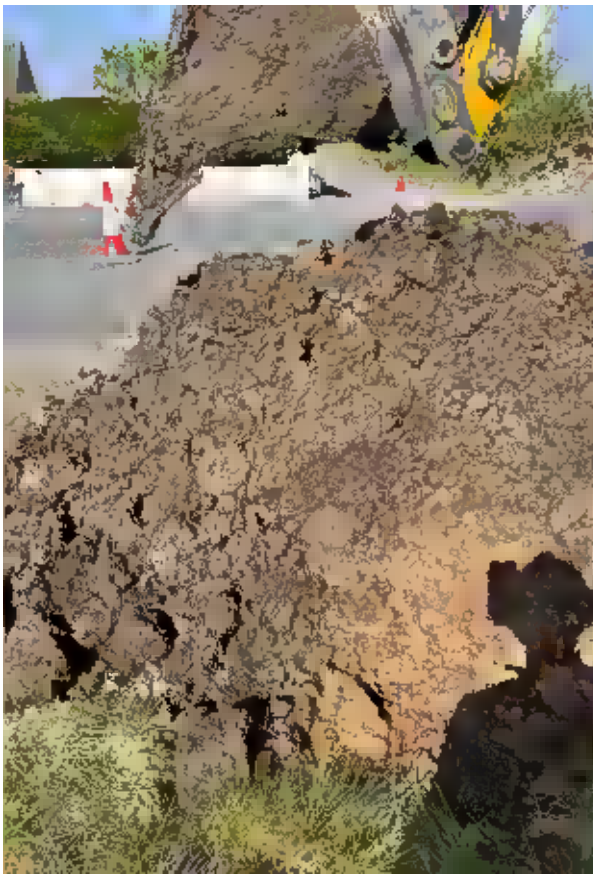


Figure 62 H:\2024\24SO105_LoughTalt\TP M15(2).JPG

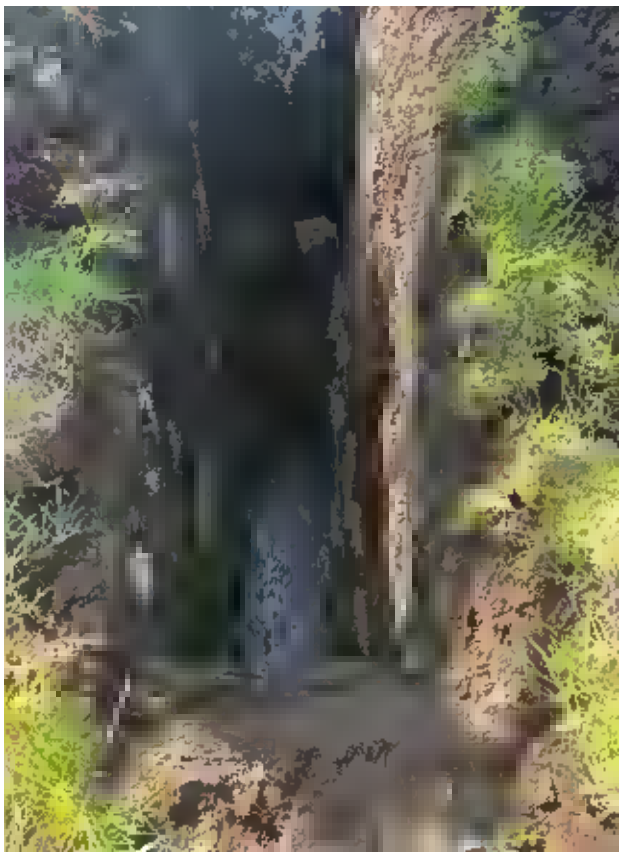


Figure 64 H:\2024\24SO105_LoughTalt\TP M16(1).JPG



Figure 65 H:\2024\24SO105_LoughTalt\TP M16(2).JPG



Figure 67 H:\2024\24SO105_LoughTalt\TP M17(2).JPG



Figure 66 H:\2024\24SO105_LoughTalt\TP M17(1).JPG

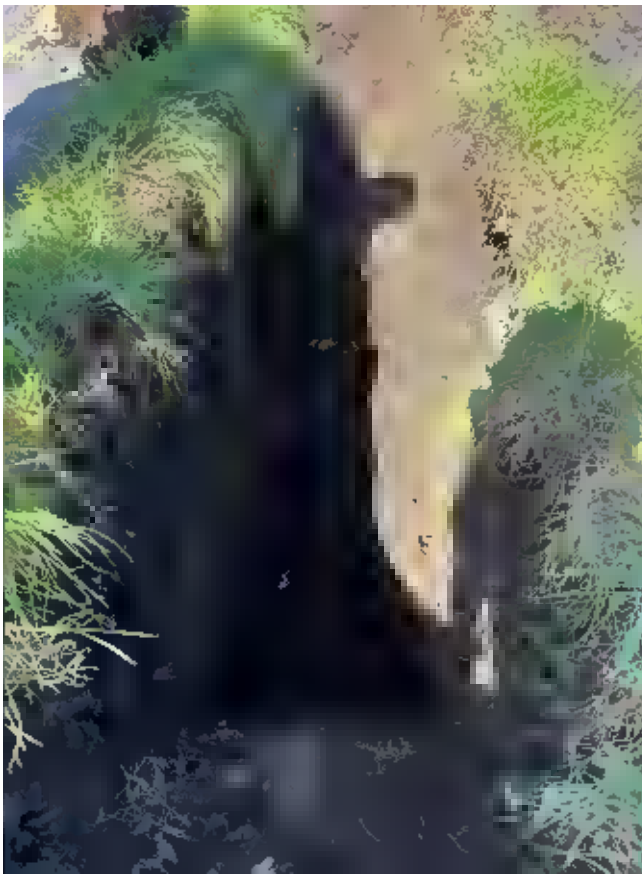


Figure 68 H:\2024\24SO105_LoughTalt\TP M18(1).JPG

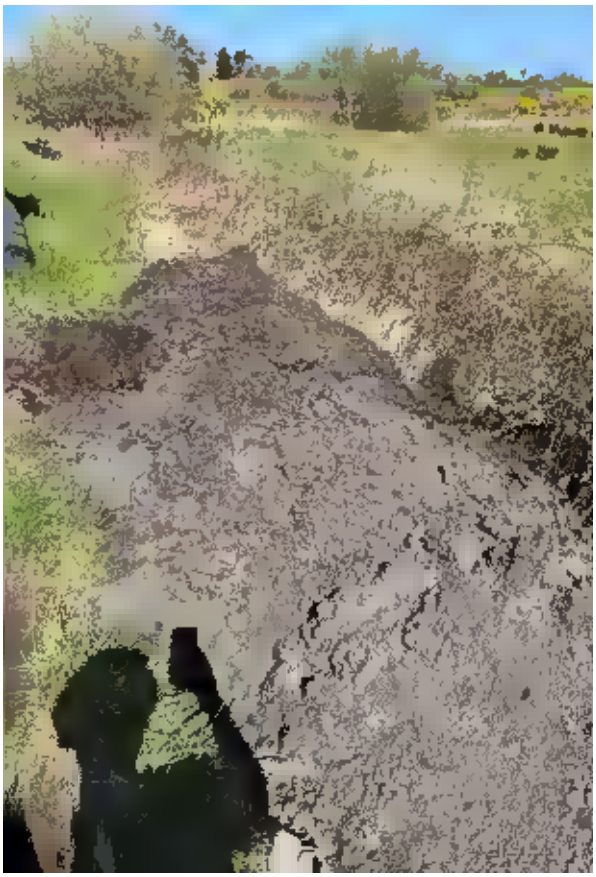


Figure 69 H:\2024\24SO105_LoughTalt\TP M18(2).JPG



Figure 71 H:\2024\24SO105_LoughTalt\TP M19(2).JPG



Figure 70 H:\2024\24SO105_LoughTalt\TP M19(1).JPG



Figure 72 H:\2024\24SO105_LoughTalt\TP M20(1).JPG



Figure 73 H:\2024\24SO105_LoughTalt\TP M20(2).JPG



Figure 75 H:\2024\24SO105_LoughTalt\TP M21(2).JPG



Figure 74 H:\2024\24SO105_LoughTalt\TP M21(1).JPG



Figure 76 H:\2024\24SO105_LoughTalt\TP M22(1).JPG



Figure 77 H:\2024\24SO105_LoughTalt\TP M22(2).JPG



Figure 79 H:\2024\24SO105_LoughTalt\TP M23(2).JPG

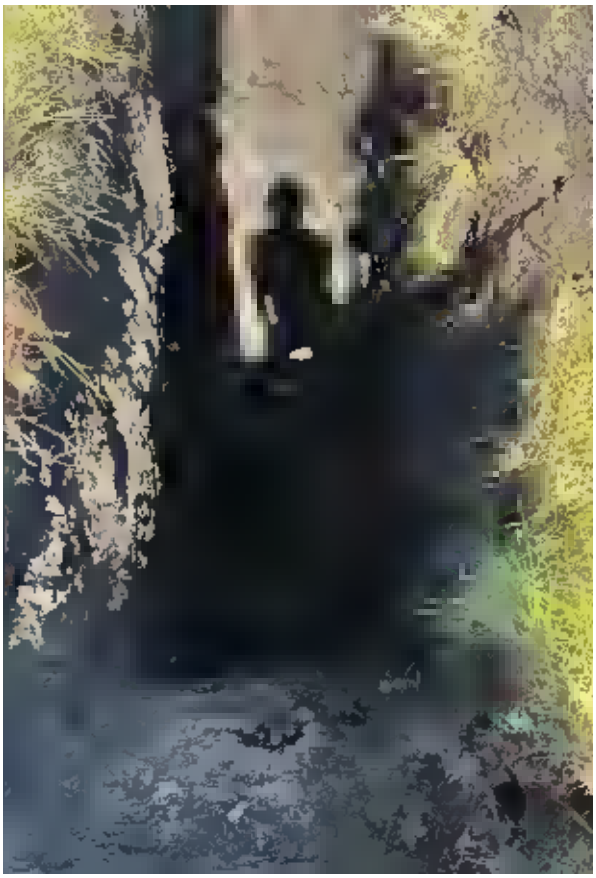


Figure 78 H:\2024\24SO105_LoughTalt\TP M23(1).JPG

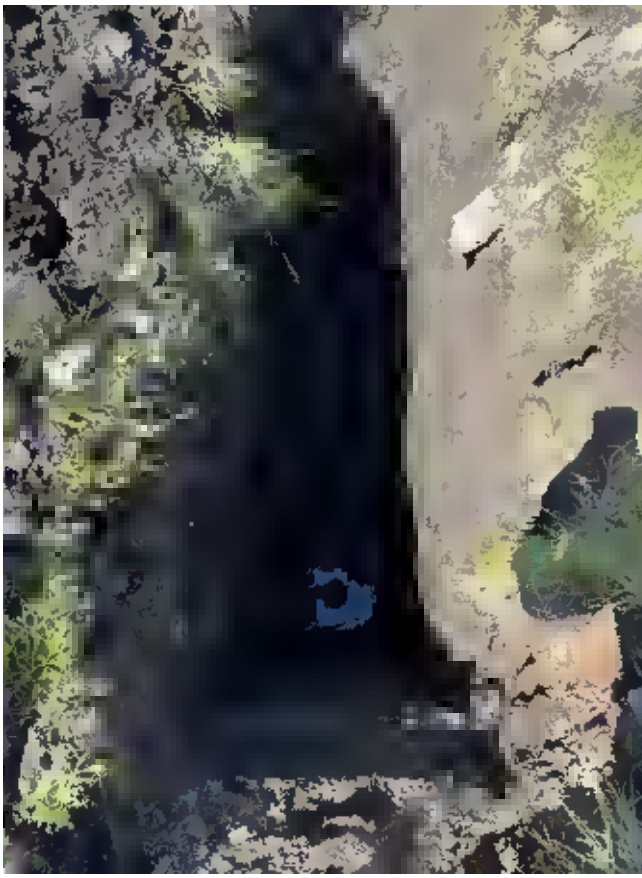


Figure 80 H:\2024\24SO105_LoughTalt\TP M24(1).JPG



Figure 81 H:\2024\24SO105_LoughTalt\TP M24(2).JPG



Figure 83 H:\2024\24SO105_LoughTalt\TP M25(2).JPG

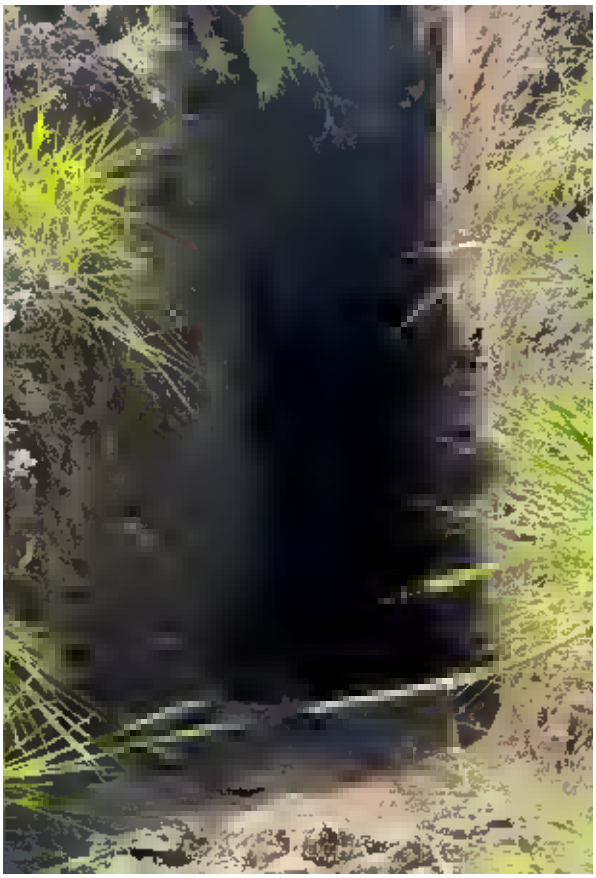


Figure 82 H:\2024\24SO105_LoughTalt\TP M25(1).JPG



Figure 84 H:\2024\24SO105_LoughTalt\TP M26(1).JPG



Figure 85 H:\2024\24SO105_LoughTalt\TP M26(2).JPG



Figure 87 H:\2024\24SO105_LoughTalt\TP M27(2).JPG



Figure 86 H:\2024\24SO105_LoughTalt\TP M27(1).JPG

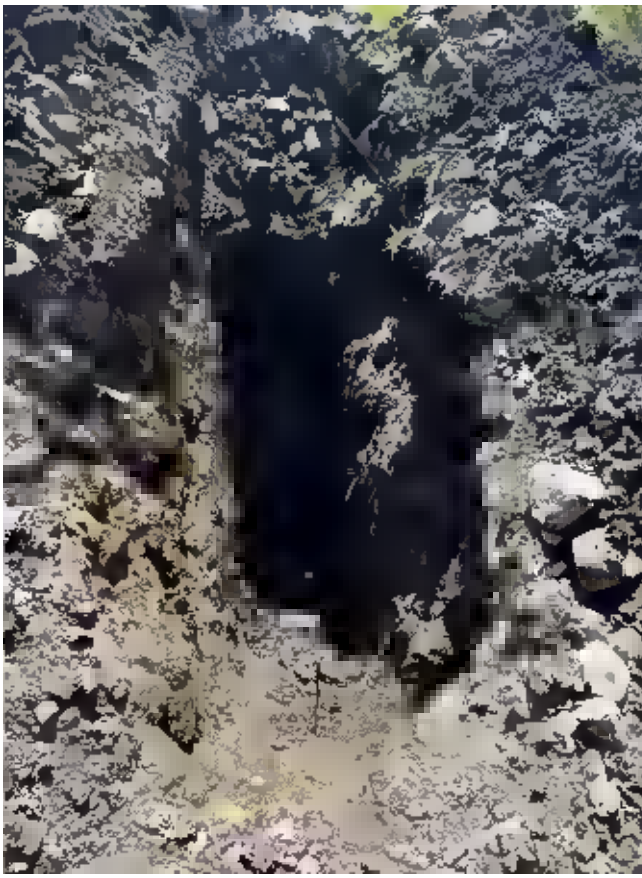


Figure 88 H:\2024\24SO105_LoughTalt\TP M28(1).JPG

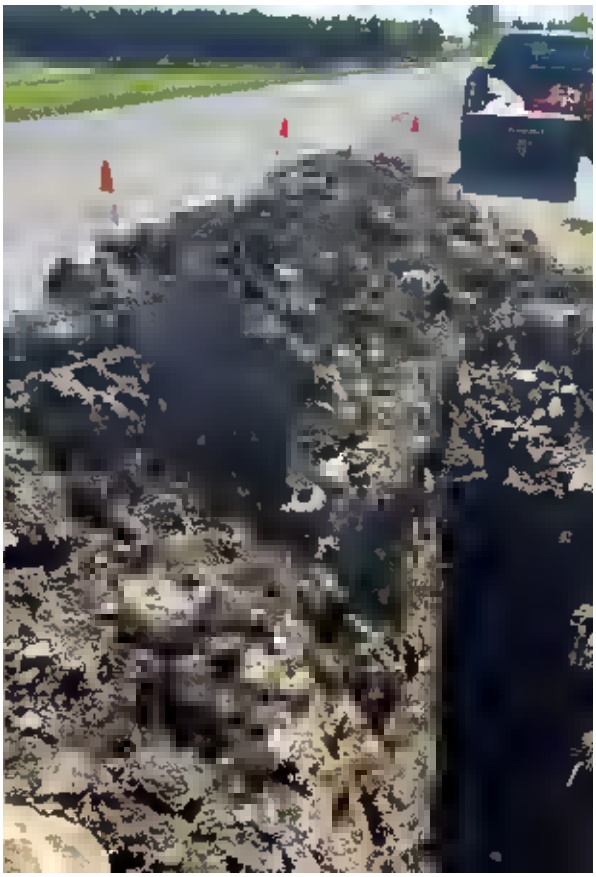


Figure 89 H:\2024\24SO105_LoughTalt\TP M28(2).JPG



Figure 91 H:\2024\24SO105_LoughTalt\TP M29(2).JPG



Figure 90 H:\2024\24SO105_LoughTalt\TP M29(1).JPG



Figure 92 H:\2024\24SO105_LoughTalt\TP M30(1).JPG



Figure 93 H:\2024\24SO105_LoughTalt\TP M30(2).JPG



Figure 95 H:\2024\24SO105_LoughTalt\TP M30A(2).JPG

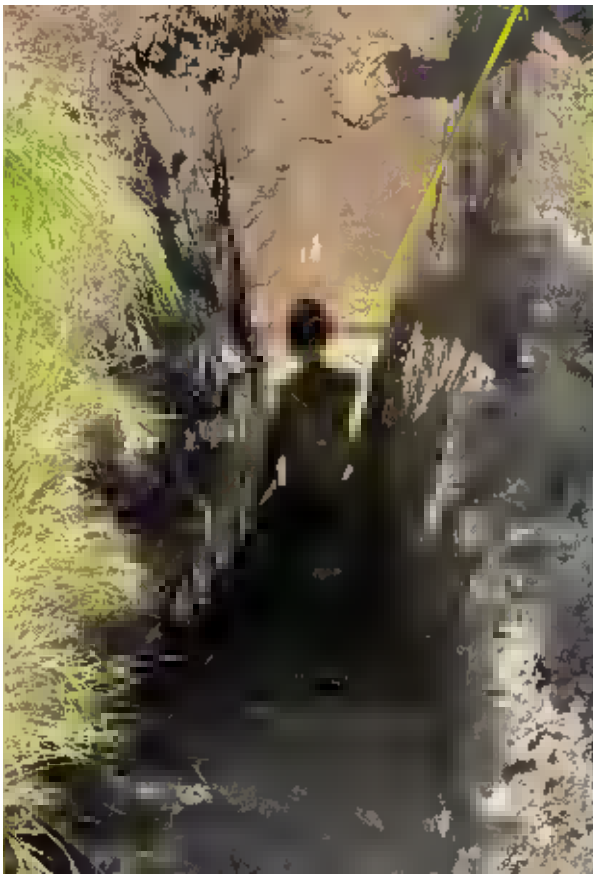


Figure 94 H:\2024\24SO105_LoughTalt\TP M30A(1).JPG



Figure 96 H:\2024\24SO105_LoughTalt\TP M30B(1).JPG



Figure 97 H:\2024\24SO105_LoughTalt\TP M30B(2).JPG



Figure 99 H:\2024\24SO105_LoughTalt\TP M30C(2).JPG



Figure 98 H:\2024\24SO105_LoughTalt\TP M30C(1).JPG



Figure 100 H:\2024\24SO105_LoughTalt\TP M31(1).JPG

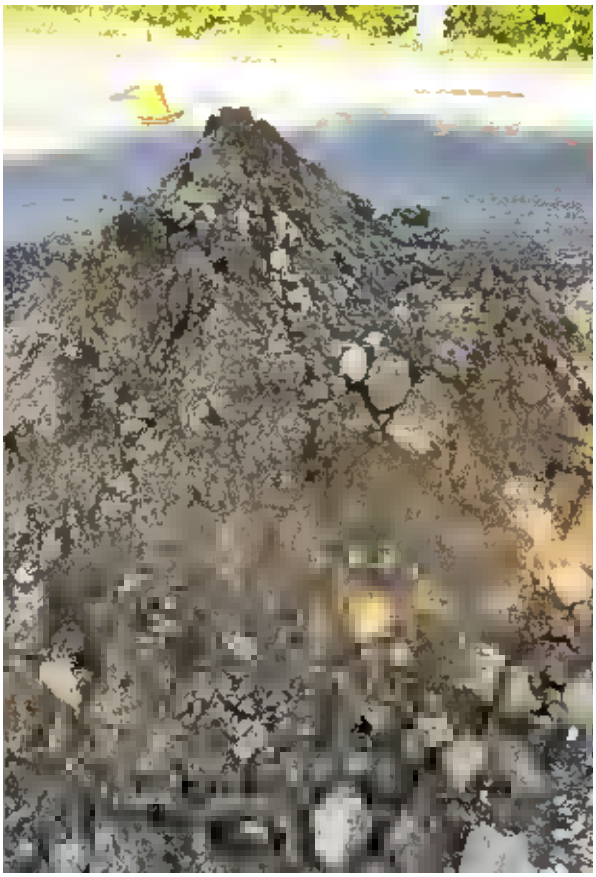


Figure 101 H:\2024\24SO105_LoughTalt\TP M31(2).JPG



Figure 103 H:\2024\24SO105_LoughTalt\TP M32(2).JPG

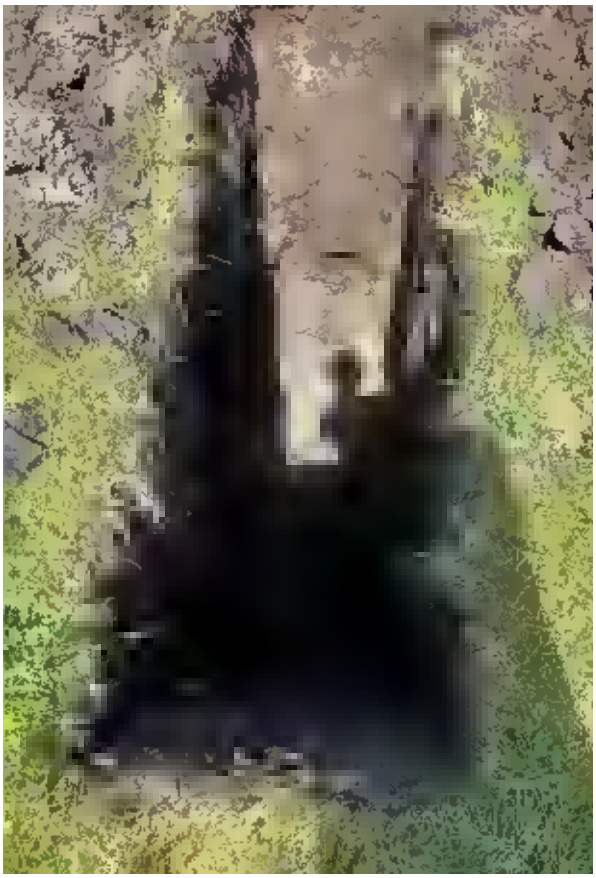


Figure 102 H:\2024\24SO105_LoughTalt\TP M32(1).JPG



Figure 104 H:\2024\24SO105_LoughTalt\TP M33(1).JPG



Figure 105 H:\2024\24SO105_LoughTalt\TP M33(2).JPG



Figure 107 H:\2024\24SO105_LoughTalt\TP M34(2).JPG



Figure 106 H:\2024\24SO105_LoughTalt\TP M34(1).JPG



Figure 108 H:\2024\24SO105_LoughTalt\TP M35(1).JPG



Figure 109 H:\2024\24SO105_LoughTalt\TP M35(2).JPG

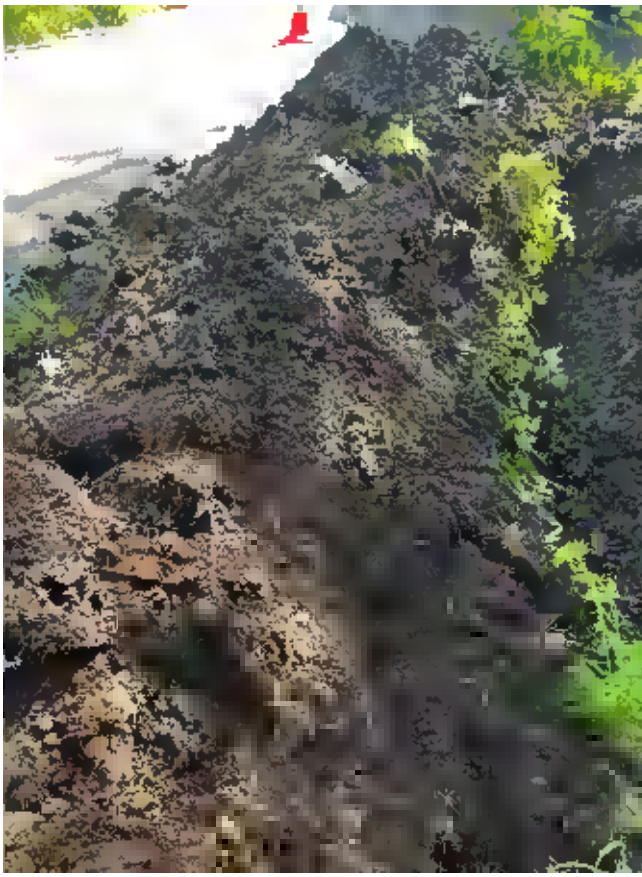


Figure 111 H:\2024\24SO105_LoughTalt\TP M36(2).JPG

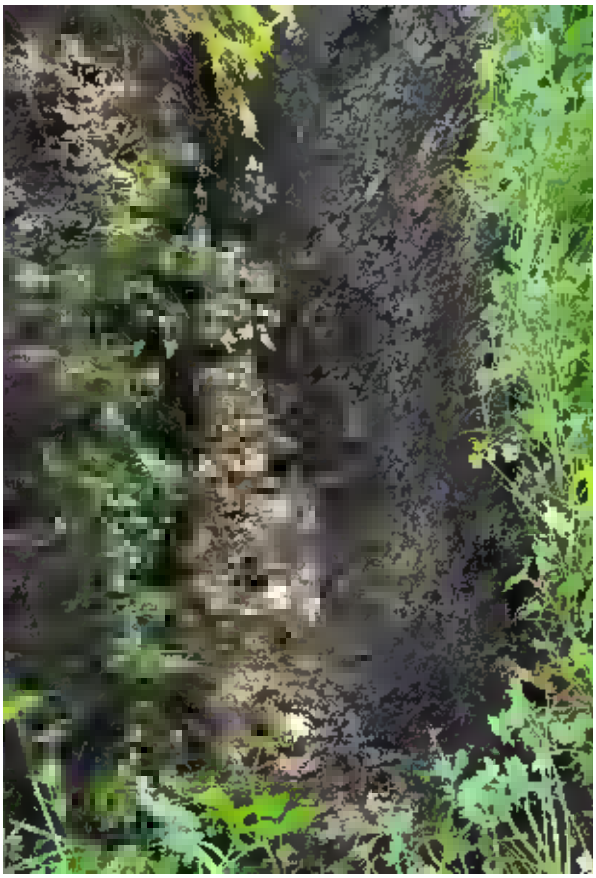


Figure 110 H:\2024\24SO105_LoughTalt\TP M36(1).JPG



Figure 112 H:\2024\24SO105_LoughTalt\TP M37(1).JPG



Figure 113 H:\2024\24SO105_LoughTalt\TP M37(2).JPG



Figure 115 H:\2024\24SO105_LoughTalt\TP M38(2).JPG



Figure 114 H:\2024\24SO105_LoughTalt\TP M38(1).JPG



Figure 116 H:\2024\24SO105_LoughTalt\TP M39(1).JPG



Figure 117 H:\2024\24SO105_LoughTalt\TP M39(2).JPG



Figure 119 H:\2024\24SO105_LoughTalt\TP M40(2).JPG



Figure 118 H:\2024\24SO105_LoughTalt\TP M40(1).JPG



Figure 120 H:\2024\24SO105_LoughTalt\TP M41(1).JPG



Figure 121 H:\2024\24SO105_LoughTalt\TP M41(2).JPG



Figure 123 H:\2024\24SO105_LoughTalt\TP M42(2).JPG



Figure 122 H:\2024\24SO105_LoughTalt\TP M42(1).JPG



Figure 124 H:\2024\24SO105_LoughTalt\TP M44(1).JPG



Figure 125 H:\2024\24SO105_LoughTalt\TP M44(2).JPG



Figure 127 H:\2024\24SO105_LoughTalt\TP M45(2).JPG



Figure 126 H:\2024\24SO105_LoughTalt\TP M45(1).JPG



Figure 128 H:\2024\24SO105_LoughTalt\TP M46(1).JPG



Figure 129 H:\2024\24SO105_LoughTalt\TP M46(2).JPG



Figure 131 H:\2024\24SO105_LoughTalt\TP M47(2).JPG



Figure 130 H:\2024\24SO105_LoughTalt\TP M47(1).JPG



Figure 132 H:\2024\24SO105_LoughTalt\TP M49(1).JPG

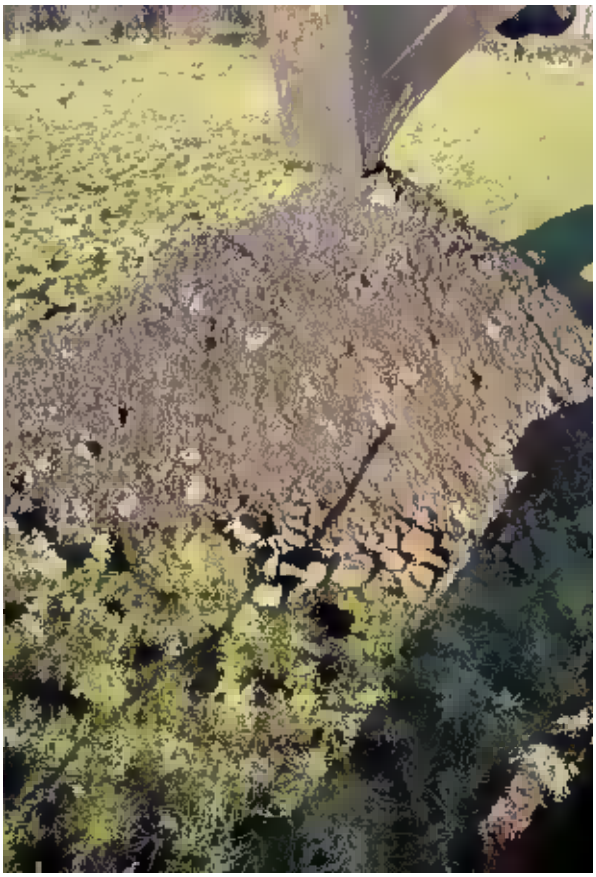


Figure 133 H:\2024\24SO105_LoughTalt\TP M49(2).JPG



Figure 135 H:\2024\24SO105_LoughTalt\TP M50(2).JPG



Figure 134 H:\2024\24SO105_LoughTalt\TP M50(1).JPG

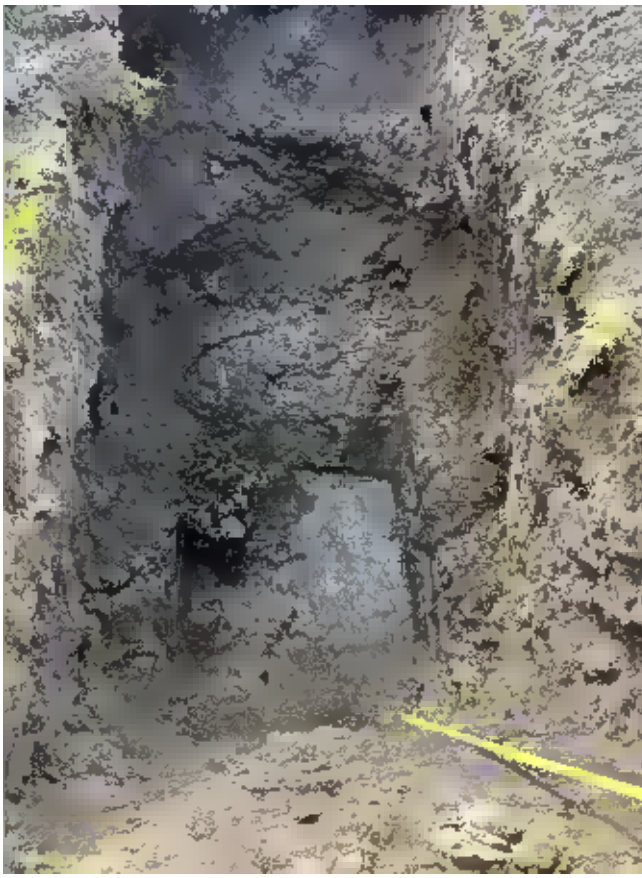


Figure 136 H:\2024\24SO105_LoughTalt\TP M51(1).JPG



Figure 137 H:\2024\24SO105_LoughTalt\TP M51(2).JPG



Figure 139 H:\2024\24SO105_LoughTalt\TP M52(2).JPG



Figure 138 H:\2024\24SO105_LoughTalt\TP M52(1).JPG



Figure 140 H:\2024\24SO105_LoughTalt\TP M53(1).JPG



Figure 141 H:\2024\24SO105_LoughTalt\TP M53(2).JPG



Figure 143 H:\2024\24SO105_LoughTalt\TP M54(3).JPG



Figure 142 H:\2024\24SO105_LoughTalt\TP M54(2).JPG



Figure 144 H:\2024\24SO105_LoughTalt\TP M57 (1).jpg



Figure 145 H:\2024\24SO105_LoughTalt\TP M57 (3).jpg



Figure 147 H:\2024\24SO105_LoughTalt\TP M57 (5).jpg



Figure 146 H:\2024\24SO105_LoughTalt\TP M57 (4).jpg



Figure 148 H:\2024\24SO105_LoughTalt\TP M57.jpg



Figure 149 H:\2024\24SO105_LoughTalt\TP M58 (1).jpg



Figure 151 H:\2024\24SO105_LoughTalt\TP M58 (4).jpg



Figure 150 H:\2024\24SO105_LoughTalt\TP M58 (3).jpg



Figure 152 H:\2024\24SO105_LoughTalt\TP M58 (5).jpg



Figure 153 H:\2024\24SO105_LoughTalt\TP M58.jpg

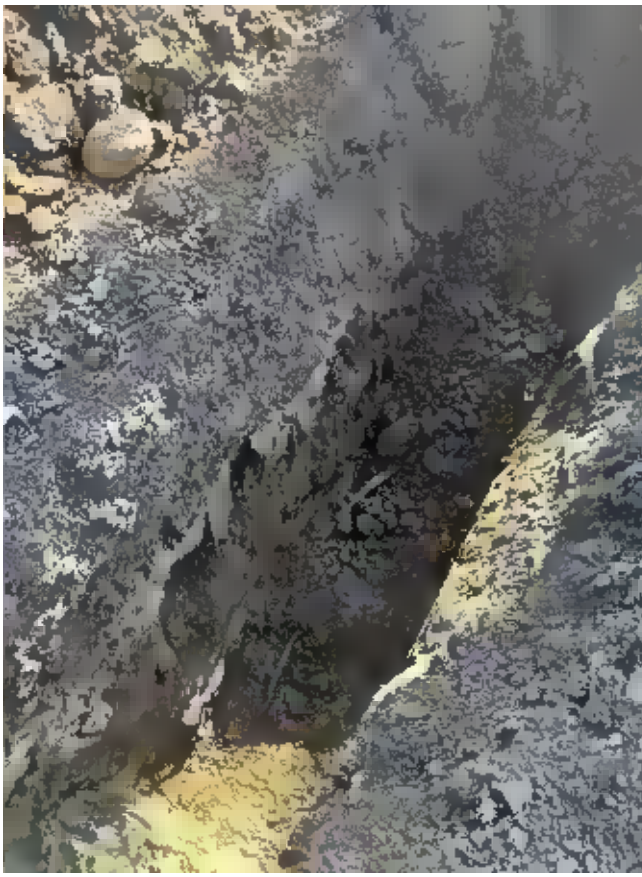


Figure 155 H:\2024\24SO105_LoughTalt\TP M61 (3).jpg



Figure 154 H:\2024\24SO105_LoughTalt\TP M61 (1).jpg



Figure 156 H:\2024\24SO105_LoughTalt\TP M61 (4).jpg



Figure 157 H:\2024\24SO105_LoughTalt\TP M61 (5).jpg



Figure 159 H:\2024\24SO105_LoughTalt\TP M64 (1).jpg



Figure 158 H:\2024\24SO105_LoughTalt\TP M61.jpg



Figure 160 H:\2024\24SO105_LoughTalt\TP M64 (3).jpg



Figure 161 H:\2024\24SO105_LoughTalt\TP M64 (4).jpg



Figure 163 H:\2024\24SO105_LoughTalt\TP M65 (3).jpg



Figure 162 H:\2024\24SO105_LoughTalt\TP M65 (1).jpg

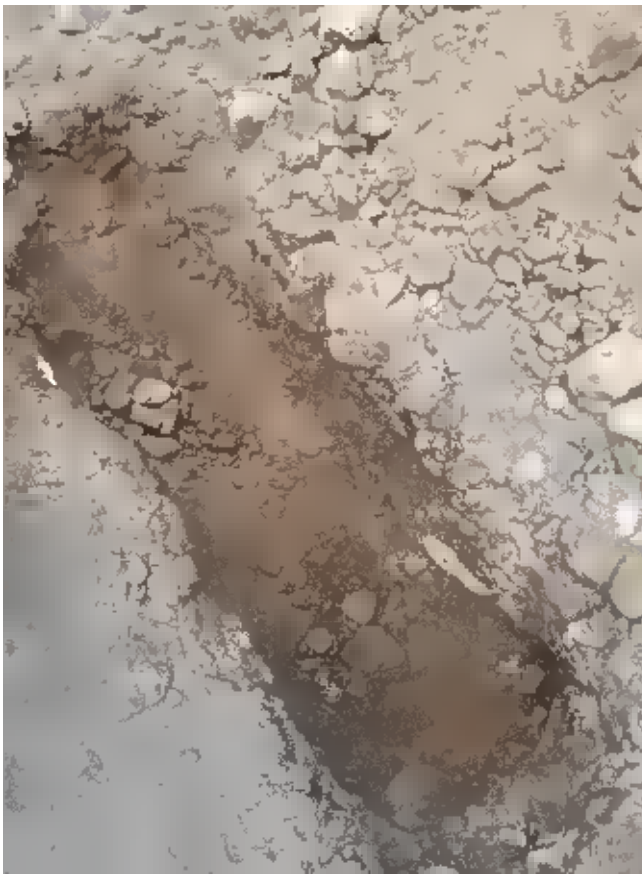


Figure 164 H:\2024\24SO105_LoughTalt\TP M65 (4).jpg



Figure 165 H:\2024\24SO105_LoughTalt\TP M66 (1).jpg

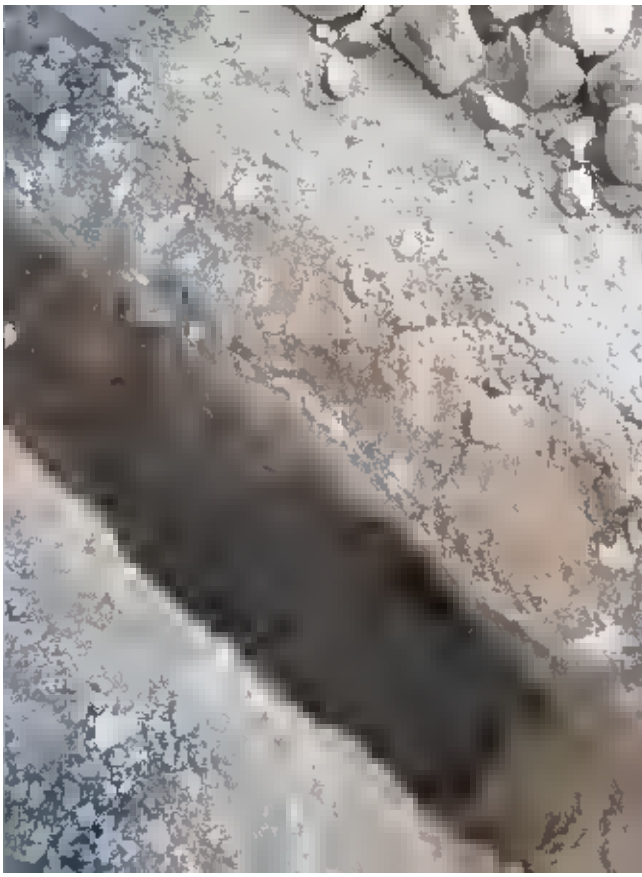


Figure 167 H:\2024\24SO105_LoughTalt\TP M66 (4).jpg



Figure 166 H:\2024\24SO105_LoughTalt\TP M66 (3).jpg



Figure 168 H:\2024\24SO105_LoughTalt\TP M68 (1).jpg

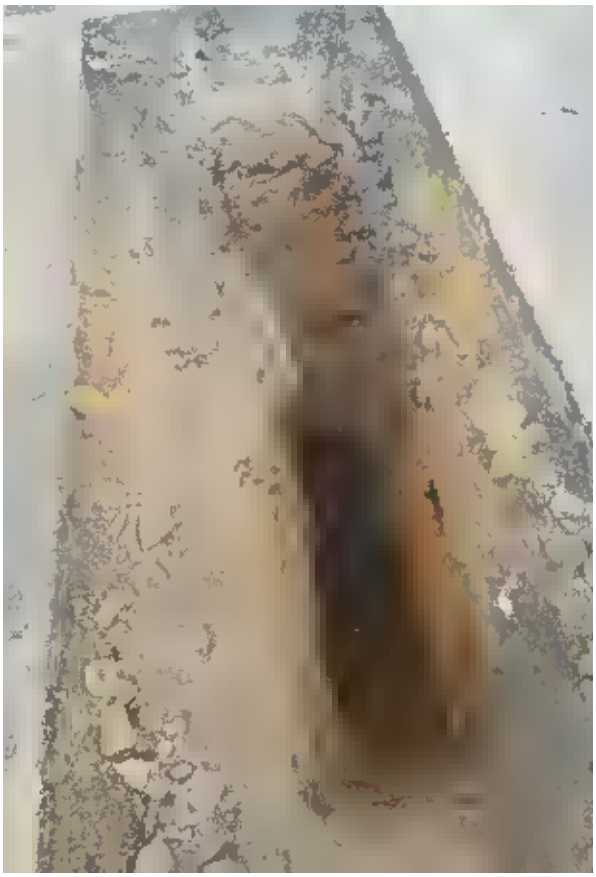


Figure 169 H:\2024\24SO105_LoughTalt\TP M68 (3).jpg



Figure 171 H:\2024\24SO105_LoughTalt\TP M68 (5).jpg



Figure 170 H:\2024\24SO105_LoughTalt\TP M68 (4).jpg



Figure 172 H:\2024\24SO105_LoughTalt\TP M69 (1).jpg



Figure 173 H:\2024\24SO105_LoughTalt\TP M69 (2).jpg



Figure 175 H:\2024\24SO105_LoughTalt\TP M69 (5).jpg



Figure 174 H:\2024\24SO105_LoughTalt\TP M69 (3).jpg



Figure 176 H:\2024\24SO105_LoughTalt\TP M71(1).JPG



Figure 177 H:\2024\24SO105_LoughTalt\TP M71(2).JPG



Figure 179 H:\2024\24SO105_LoughTalt\TP M72(2).JPG



Figure 178 H:\2024\24SO105_LoughTalt\TP M72(1).JPG



Figure 180 H:\2024\24SO105_LoughTalt\TP M73(1).JPG



Figure 181 H:\2024\24SO105_LoughTalt\TP M73(2).JPG



Figure 182 H:\2024\24SO105_LoughTalt\TP M74(1).JPG



Figure 183 H:\2024\24SO105_LoughTalt\TP M74(2).JPG



Figure 184 H:\2024\24SO105_LoughTalt\TP M75(1).JPG



Figure 185 H:\2024\24SO105_LoughTalt\TP M75(2).JPG

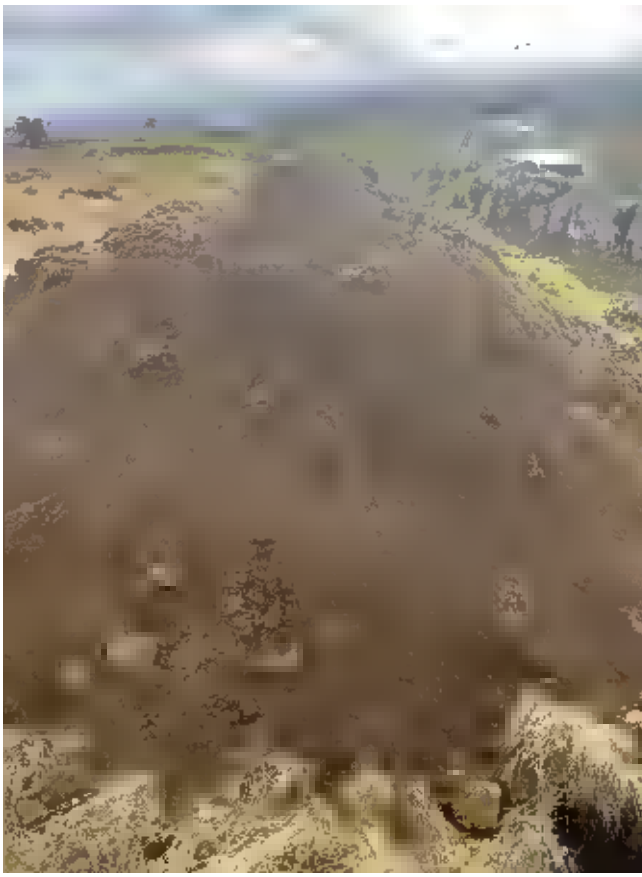


Figure 187 H:\2024\24SO105_LoughTalt\TP M76(2).JPG



Figure 186 H:\2024\24SO105_LoughTalt\TP M76(1).JPG



Figure 188 H:\2024\24SO105_LoughTalt\TP M77(1).JPG



Figure 189 H:\2024\24SO105_LoughTalt\TP M77(2).JPG



Figure 191 H:\2024\24SO105_LoughTalt\TP M78(2).JPG



Figure 190 H:\2024\24SO105_LoughTalt\TP M78(1).JPG



Figure 192 H:\2024\24SO105_LoughTalt\TP M79 (2).JPG



Figure 193 H:\2024\24SO105_LoughTalt\TP M79(1).JPG

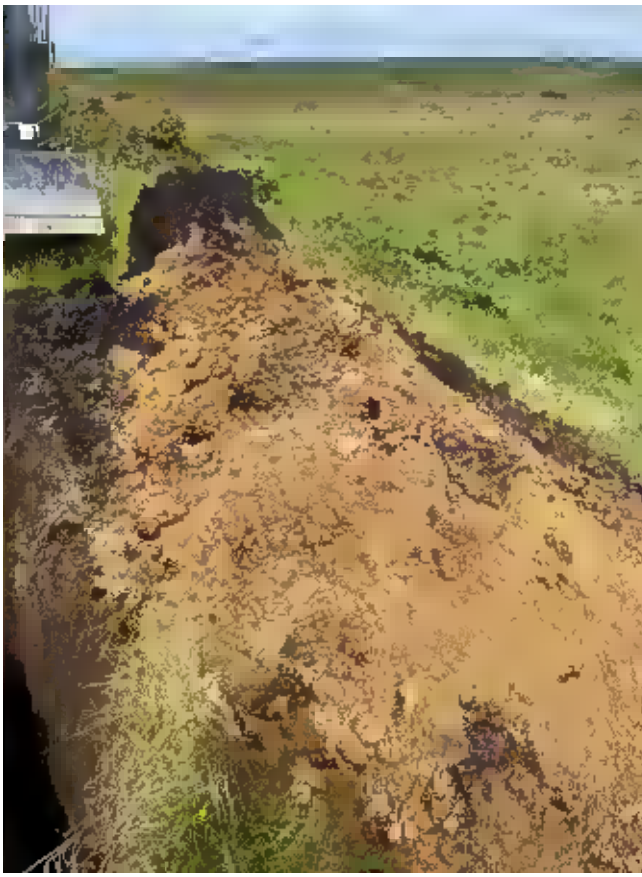


Figure 195 H:\2024\24SO105_LoughTalt\TP M80(2).JPG



Figure 194 H:\2024\24SO105_LoughTalt\TP M80(1).JPG



Figure 196 H:\2024\24SO105_LoughTalt\TP M81(1).JPG



Figure 197 H:\2024\24SO105_LoughTalt\TP M81(2).JPG



Figure 199 H:\2024\24SO105_LoughTalt\TP M82(2).JPG



Figure 198 H:\2024\24SO105_LoughTalt\TP M82(1).JPG



Figure 200 H:\2024\24SO105_LoughTalt\TP M83(1).JPG



Figure 201 H:\2024\24SO105_LoughTalt\TP M83(2).JPG



Figure 203 H:\2024\24SO105_LoughTalt\TP M84(2).JPG



Figure 202 H:\2024\24SO105_LoughTalt\TP M84(1).JPG



Figure 204 H:\2024\24SO105_LoughTalt\TP M85(1).JPG



Figure 205 H:\2024\24SO105_LoughTalt\TP M85(2).JPG

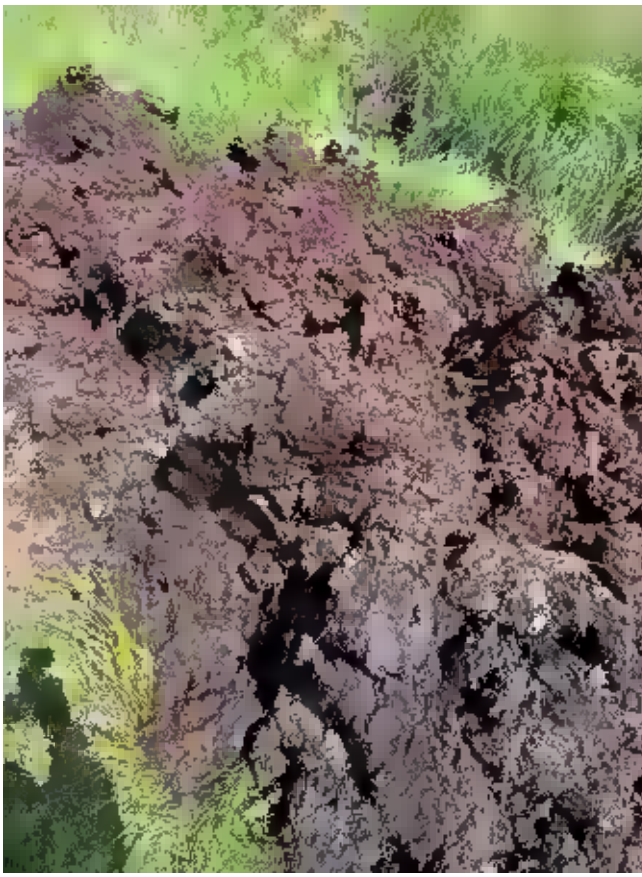


Figure 207 H:\2024\24SO105_LoughTalt\TP M86(2).JPG



Figure 206 H:\2024\24SO105_LoughTalt\TP M86(1).JPG



Figure 208 H:\2024\24SO105_LoughTalt\TP M88 (1).jpg



Figure 209 H:\2024\24SO105_LoughTalt\TP M88 (3).jpg



Figure 211 H:\2024\24SO105_LoughTalt\TP M88 (5).jpg



Figure 210 H:\2024\24SO105_LoughTalt\TP M88 (4).jpg



Figure 212 H:\2024\24SO105_LoughTalt\TP M88 (6).jpg



Figure 213 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\STTEL70 AND TPM89 (5).jpg



Figure 214 H:\2024\24SO105_LoughTalt\TP M91(1).JPG



Figure 215 H:\2024\24SO105_LoughTalt\TP M91(2).JPG



Figure 216 H:\2024\24SO105_LoughTalt\TP M92(1).JPG

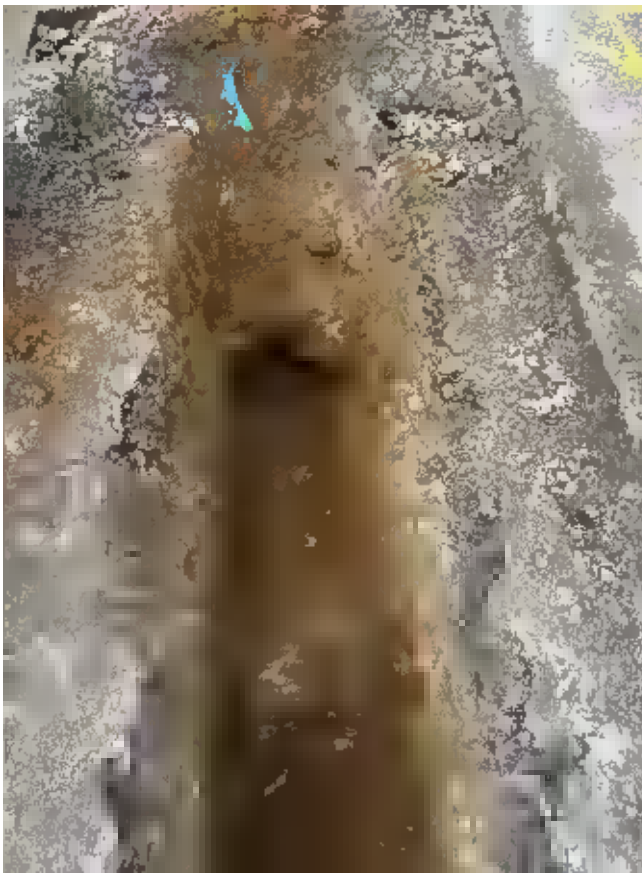


Figure 218 H:\2024\24SO105_LoughTalt\TP M93(1).JPG



Figure 217 H:\2024\24SO105_LoughTalt\TP M92(2).JPG



Figure 219 H:\2024\24SO105_LoughTalt\TP M93(2).JPG



Figure 221 H:\2024\24SO105_LoughTalt\TP M95 (1).jpg



Figure 220 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\STTEL71 AND TPM94 (5).jpg



Figure 222 H:\2024\24SO105_LoughTalt\TP M95 (3).jpg



Figure 223 H:\2024\24SO105_LoughTalt\TP M95 (4).jpg



Figure 225 H:\2024\24SO105_LoughTalt\TP M96 (3).jpg



Figure 224 H:\2024\24SO105_LoughTalt\TP M96 (1).jpg



Figure 226 H:\2024\24SO105_LoughTalt\TP M96 (4).jpg



Figure 227 H:\2024\24SO105_LoughTalt\TP M96 (5).jpg



Figure 229 H:\2024\24SO105_LoughTalt\TP M97 (3).jpg



Figure 228 H:\2024\24SO105_LoughTalt\TP M97 (1).jpg



Figure 230 H:\2024\24SO105_LoughTalt\TP M98 (1).jpg



Figure 231 H:\2024\24SO105_LoughTalt\TP M98 (3).jpg

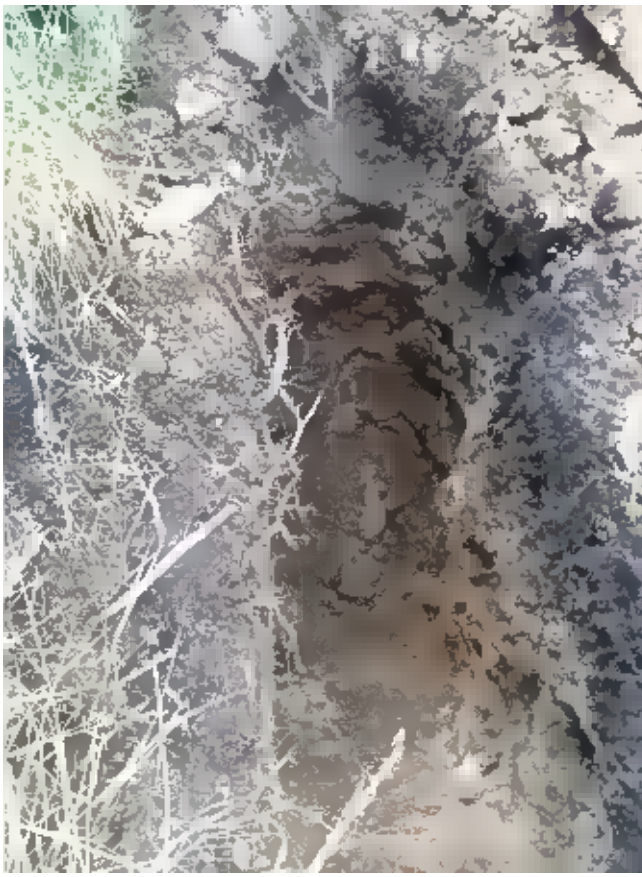


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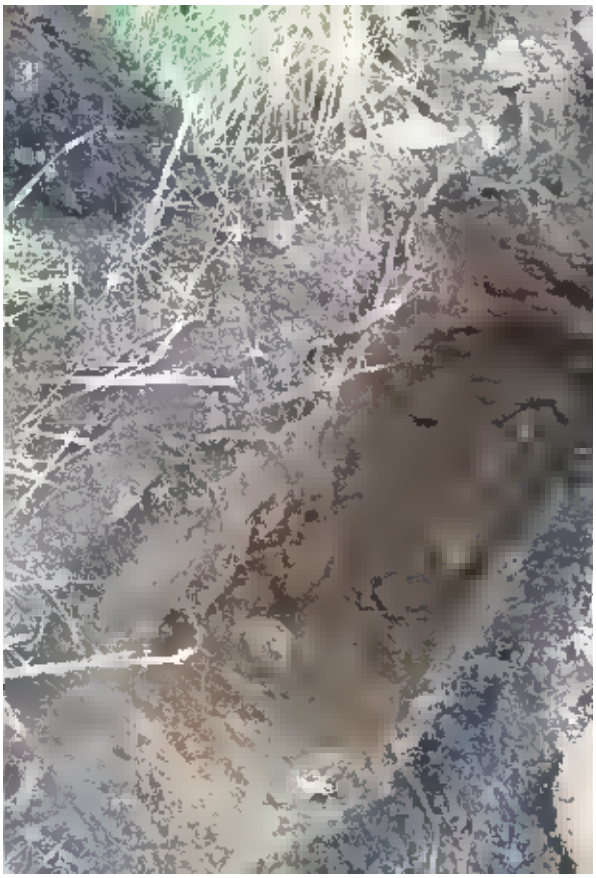


Figure 232 H:\2024\24SO105_LoughTalt\TP M98 (4).jpg



Figure 234 H:\2024\24SO105_LoughTalt\TP M99 (1).jpg



Figure 235 H:\2024\24SO105_LoughTalt\TP M99 (3).jpg



Figure 237 H:\2024\24SO105_LoughTalt\TP M99 (5).jpg

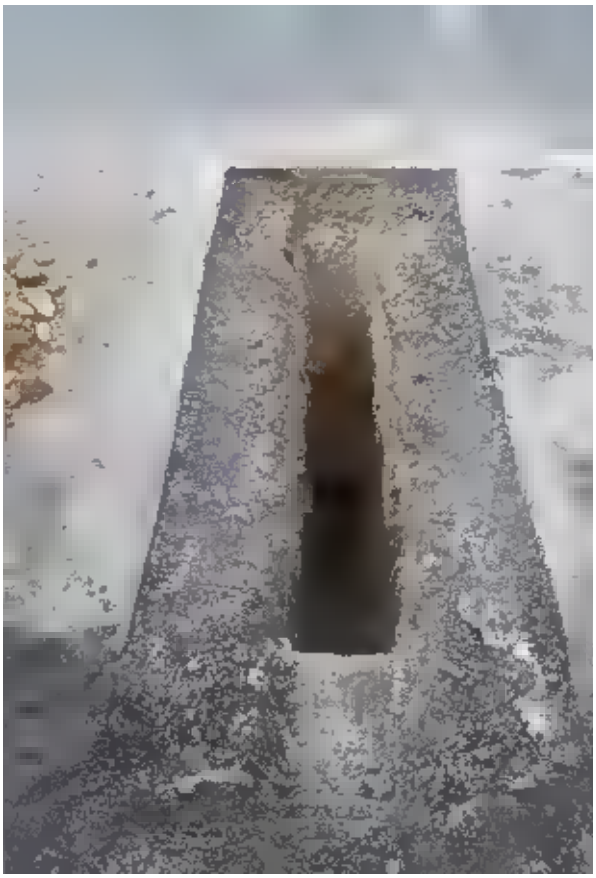


Figure 236 H:\2024\24SO105_LoughTalt\TP M99 (4).jpg



Figure 238 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M100 (1).jpg



Figure 239 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M100 (3).jpg



Figure 241 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M100 (5).jpg



Figure 240 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M100 (4).jpg



Figure 242 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M101 (1).jpg



Figure 243 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M101 (3).jpg



Figure 245 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M101 (5).jpg



Figure 244 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M101 (4).jpg



Figure 246 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M102(1).jpg



Figure 247 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M102(2).jpg

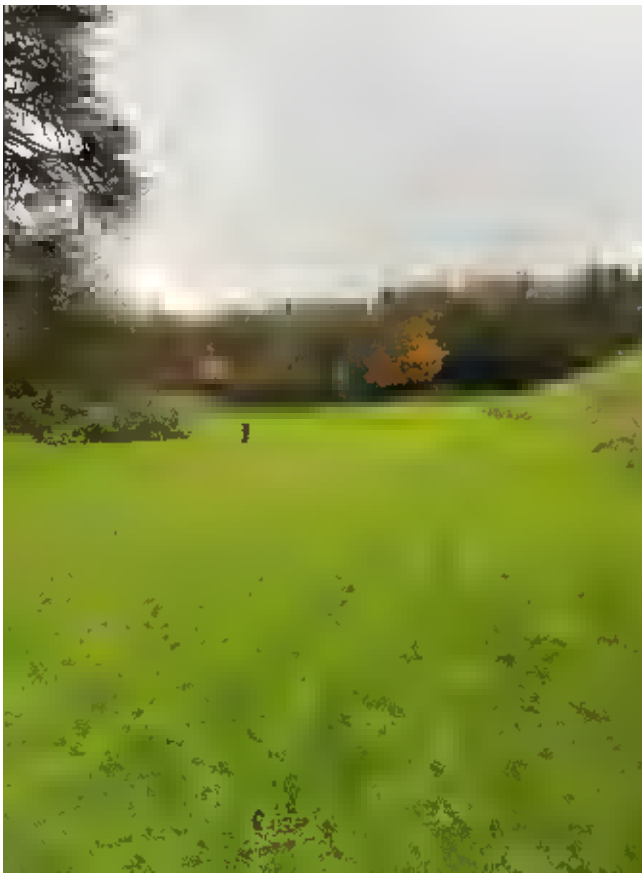


Figure 249 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M103(1).jpg



Figure 248 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M102(3).jpg



Figure 250 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M103(2).jpg



Figure 251 H:\2024\24SO105_LoughTalt\Lough Talt Photos\Trial Pits\TP M103(3).jpg



Figure 253 H:\2024\24SO105_LoughTalt\TP R01(2).JPG



Figure 252 H:\2024\24SO105_LoughTalt\TP R01(1).JPG



Figure 254 H:\2024\24SO105_LoughTalt\TP R02(1).JPG



Figure 255 H:\2024\24SO105_LoughTalt\TP R02(2).JPG



Figure 257 H:\2024\24SO105_LoughTalt\TP R03(2).JPG



Figure 256 H:\2024\24SO105_LoughTalt\TP R03(1).JPG



Figure 258 H:\2024\24SO105_LoughTalt\TP R04(1).JPG



Figure 259 H:\2024\24SO105_LoughTalt\TP R04(2).JPG



Figure 261 H:\2024\24SO105_LoughTalt\TP T01(2).JPG



Figure 260 H:\2024\24SO105_LoughTalt\TP T01(1).JPG



Figure 262 H:\2024\24SO105_LoughTalt\TP T02(1).JPG



Figure 263 H:\2024\24SO105_LoughTalt\TP T02(2).JPG



Figure 265 H:\2024\24SO105_LoughTalt\TP T03(2).JPG



Figure 264 H:\2024\24SO105_LoughTalt\TP T03(1).JPG



Figure 266 H:\2024\24SO105_LoughTalt\TP T04(1).JPG



Figure 267 H:\2024\24SO105_LoughTalt\TP T04(2).JPG



Figure 269 H:\2024\24SO105_LoughTalt\TP WH 01(2).JPG



Figure 268 H:\2024\24SO105_LoughTalt\TP WH 01(1).JPG

Appendix 16
Photographs (Rotary Core)


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH·F R 0 1
Box
1 2.3.
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH·F R 2
Box
1 2.3.


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG1
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG2
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG2
Box
14'56
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG3A
Box
12.3.


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG3A
Box
4 5


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG4
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG4
Box
14'5
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG5
Box
12.3.
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG5
Box
4


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG6
Box
12.3
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG6
Box
14.5


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LG7
Box
1 2 3
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LR1
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LR1
Box
14
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LR2
Box
12.3.
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH-LR2
Box
14

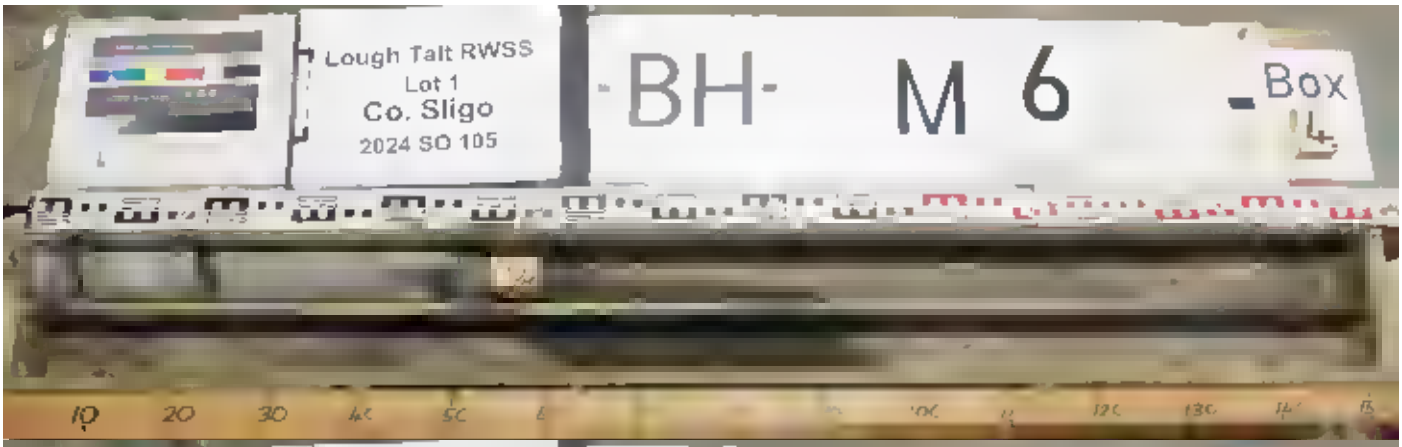

Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 0 1 Box 1 2 3
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 0 1 Box 4
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH Mo 2 Box 1 2

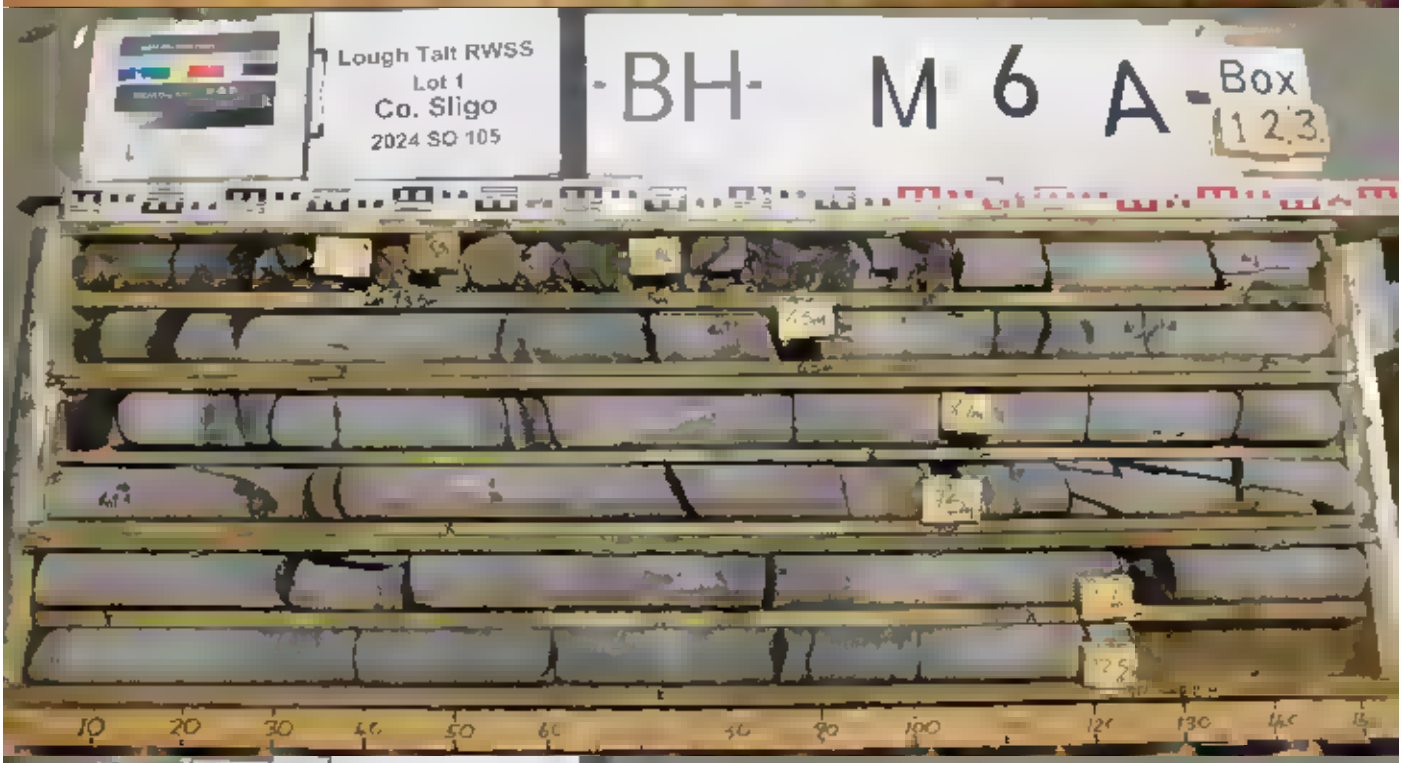

Lough Talt RWSS
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Co. Sligo
2024 SO 105
BH M0 3
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M0 3 A
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M0 4
Box
1 2 3.
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M0 4 A
Box
1 2 3.
Lough Talt RWSS
Lot 1
Co. Sligo
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BH M0 4 A
Box
4.

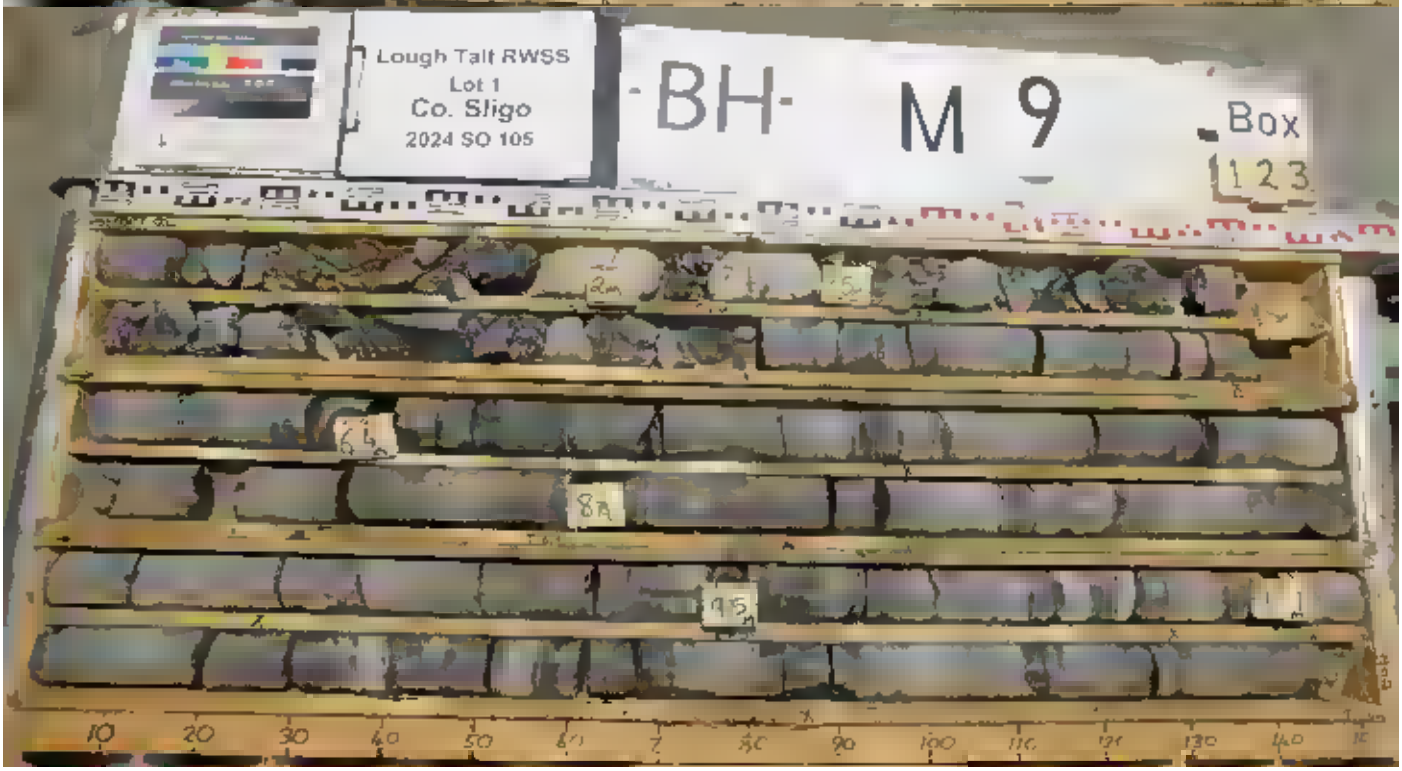

Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH- M 5
Box
1 2 3
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH- M 5
Box
4
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH- M 6
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 6
Box


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 6 A
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 7
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH- M 8
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH- M 9
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 1 0
Box
1 2 3
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
M 1 3
Box
1 2 3
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
M 1 3
Box
4


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 1 4
Box
1 2 3
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 1 4
Box
14


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 1 5
Box
123
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 1 5
Box
54


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 1 5
Box
4.5
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 1 6
Box
1 2 3
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 1 6
Box
4


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BHM 19
Box
11
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BHM 20
Box
1 2.3.
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BHM 20A
Box
11


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BHM 2 1
Box
1
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BHM 2 2
Box
1 2.
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BHM 2 3
Box
1 2.3.


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BHM 26
Box
1 2 3
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BHM 26
Box
4 5


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 2 7
Box
1 2 3
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 2 8
Box
1 2
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 2 9
Box
1


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 3 0
Box
1
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 3 1
Box
1
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 3 2
Box
1
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 3 3
Box
1


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 3 4
Box
1 2
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 3 5
Box
1 2
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 3 6
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 3 7
Box
1
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 3 8
Box
1
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 3 9
Box
1 2


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 4 0
Box
12
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 4 0
Box
12
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 4 1
Box
12


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 4 2
Box
1 2.
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH M 4 3
Box
1 2.
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH- R 0 1
Box
1.2.3.


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH R 0 1
Box
4
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH R 0 2
Box
1 2 3
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH R 0 3
Box
1 2 3


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH- R 0 3
Box
14
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
T 0 1
Box
12.3.
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Lot 1
Co. Sligo
2024 SO 105
T 0 2
Box
12.3.

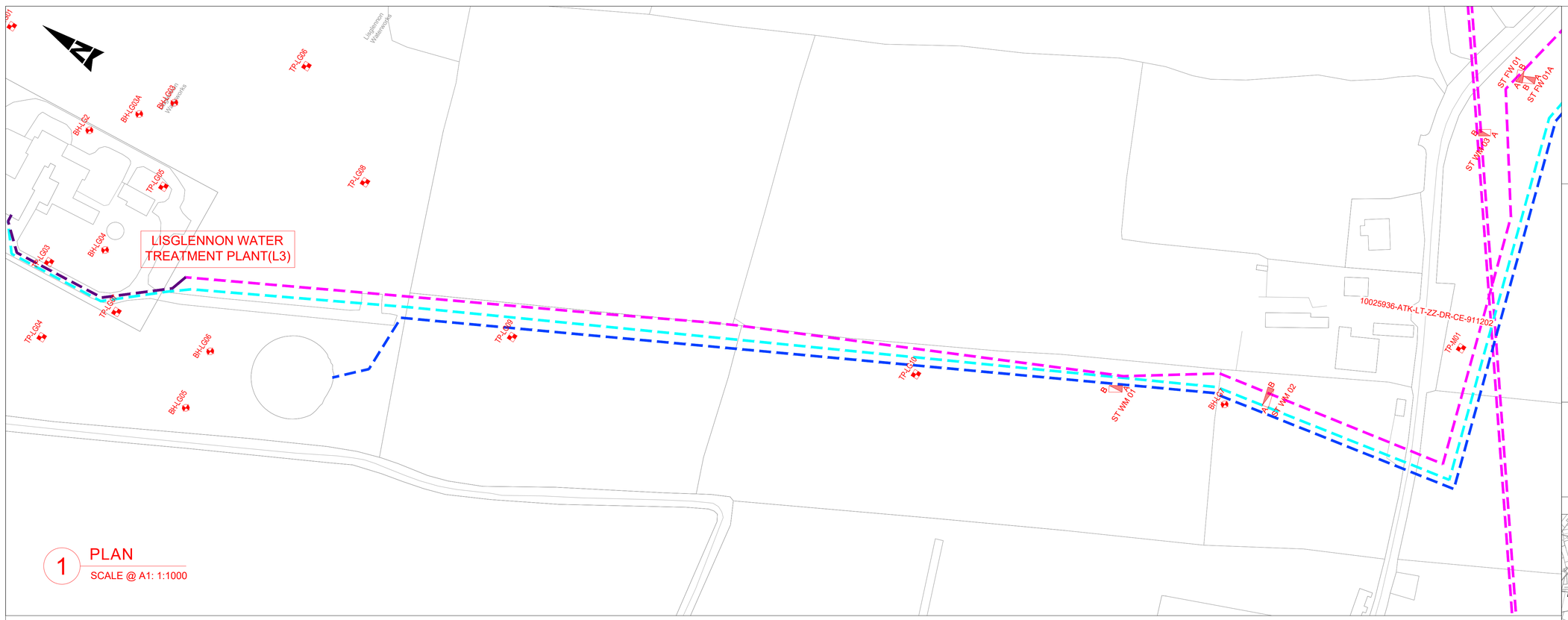

Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
T 03
Box
123
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
T 03
Box
456


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
T 04
Box
123
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
T 04
Box
14


Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH WH 01
Box
1 2.3.
Lough Talt RWSS
Lot 1
Co. Sligo
2024 SO 105
BH WH 02
Box
1 2.3.

Appendix 17
‘As-Built’ Site Plans

DO NOT SCALE



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

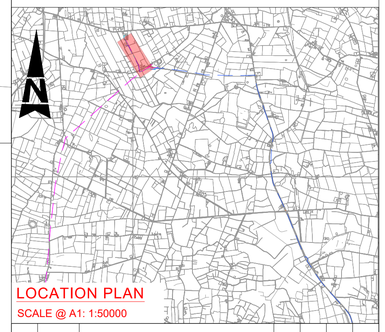
GENERAL NOTES

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2. ONLY WRITTEN DIMENSIONS SHALL BE USED. NO DIMENSIONS SHALL BE SCALED FROM THE DRAWINGS
3. ALL LEVELS ARE IN METRES AND ARE TO MALIN HEAD DATUM
4. ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 1 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911201

Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

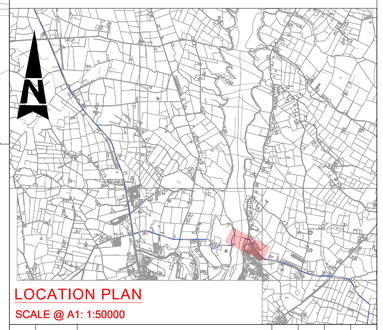
GENERAL NOTES

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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

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Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

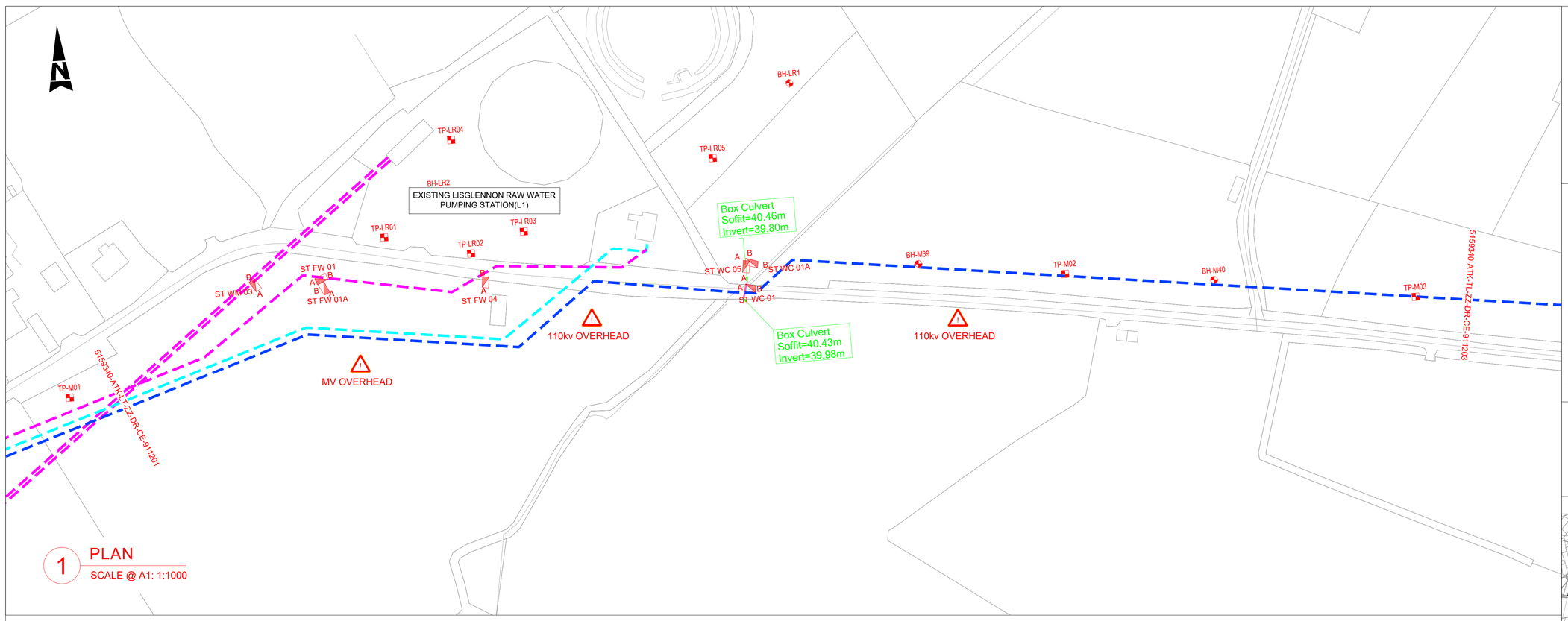
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 18 OF 51

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AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911218
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

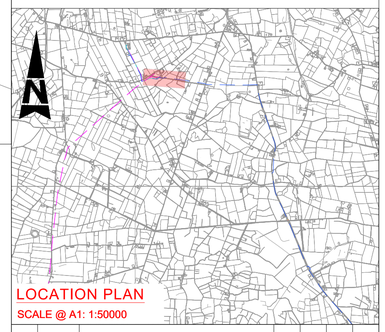
GENERAL NOTES

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4. ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 2 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

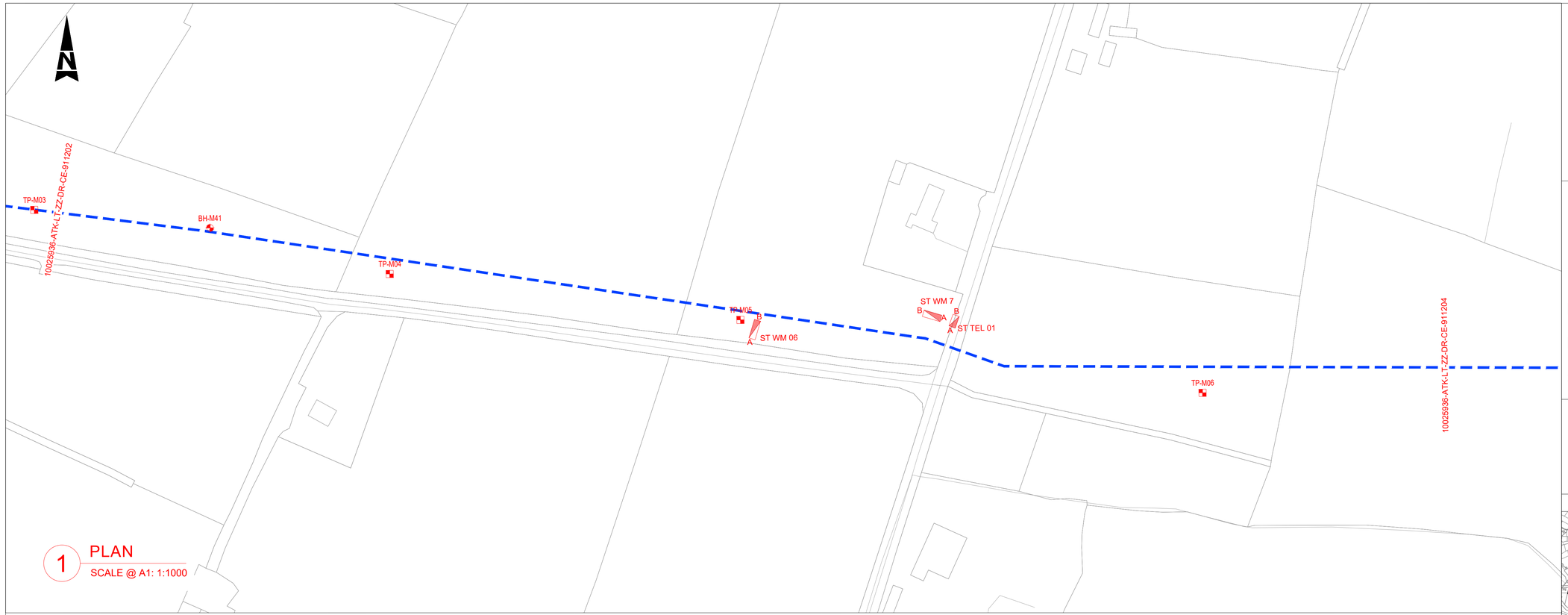
Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911202

Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 100 10 0



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

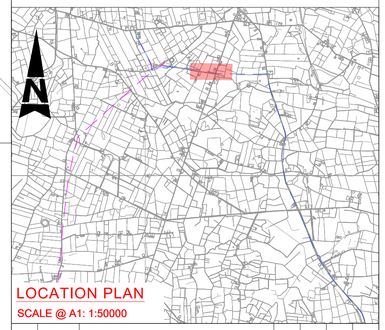
Trial Hole

Borehole Location

Dynamic Probe

Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 3 OF 51

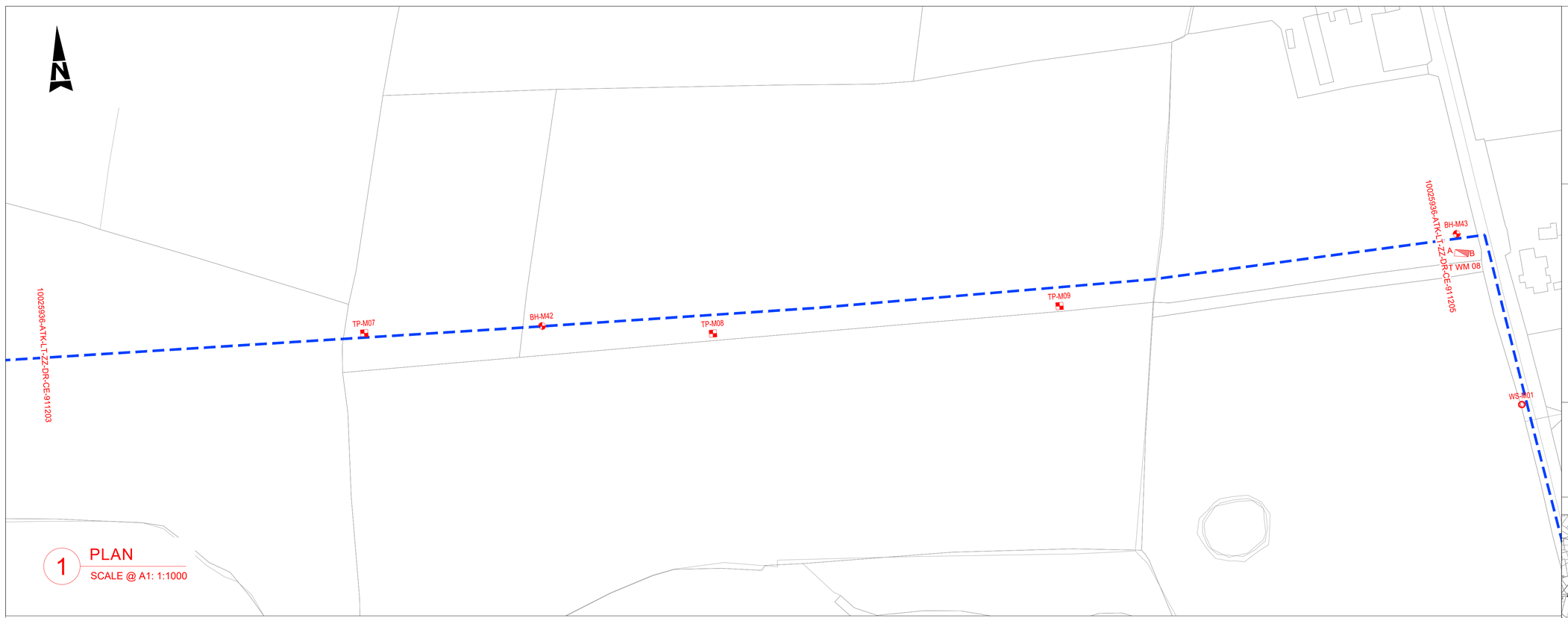
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AS SHOWN	MM	MM	RK	RK
Original Size	Date	Date	Date	Date
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Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911203
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

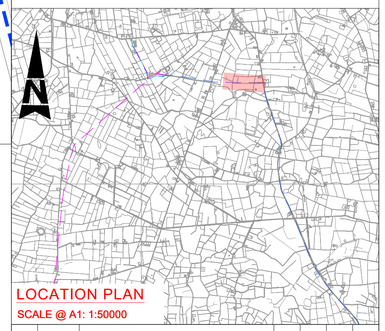
GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

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Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

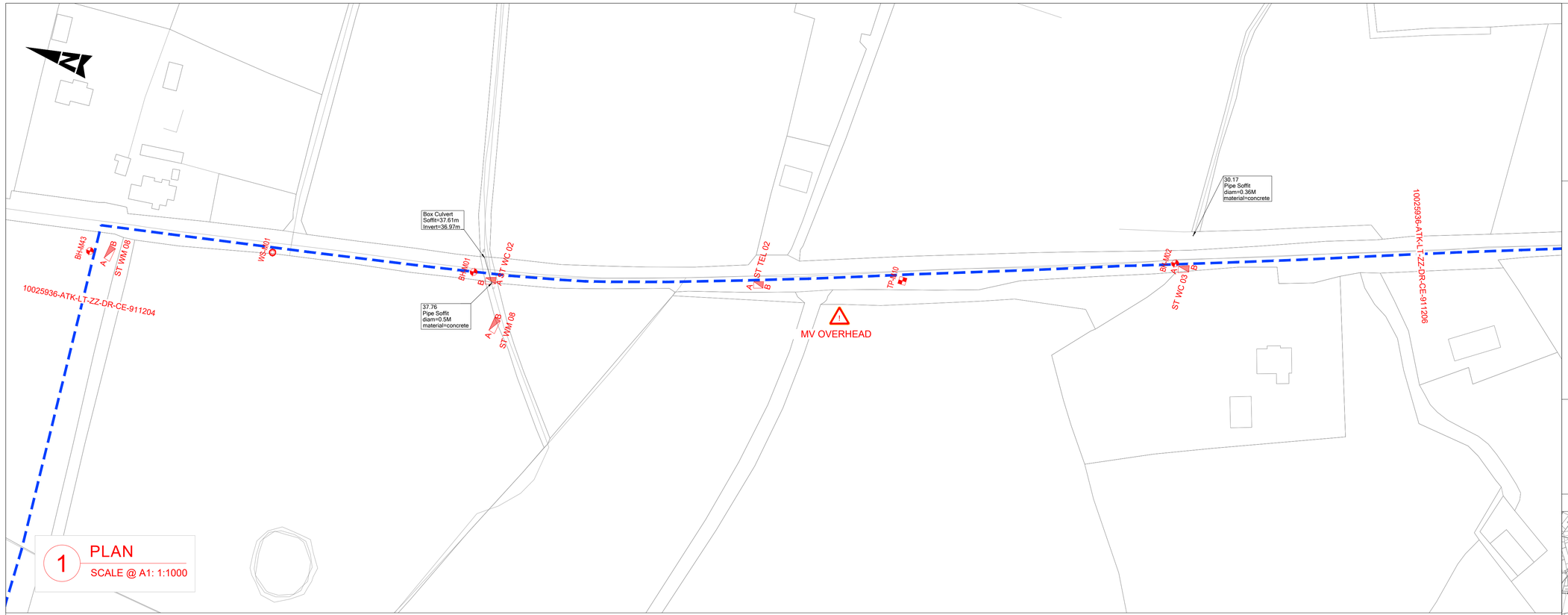
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 4 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911204
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

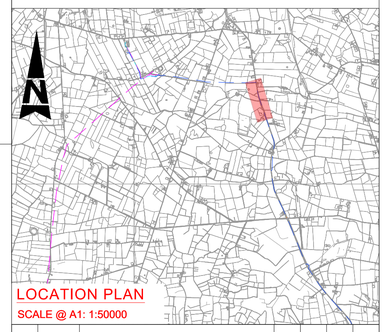
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Legend

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- Borehole Location
- Dynamic Probe
- Slit Trench

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Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann / Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 5 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911205

Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

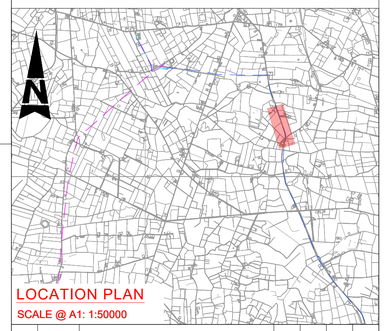
GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. ONLY WRITTEN DIMENSIONS SHALL BE USED. NO DIMENSIONS SHALL BE SCALED FROM THE DRAWINGS
3. ALL LEVELS ARE IN METRES AND ARE TO MALIN HEAD DATUM
4. ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

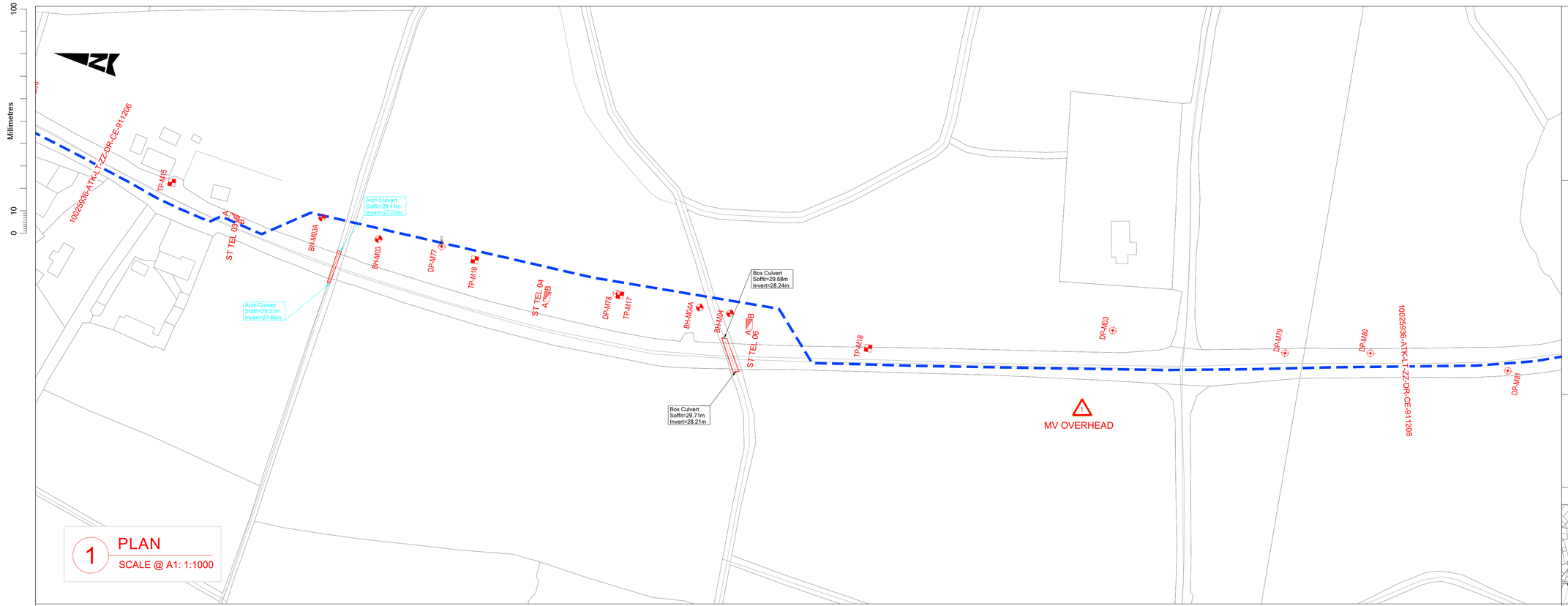
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 6 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911206
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN

SCALE @ A1: 1:1000



2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

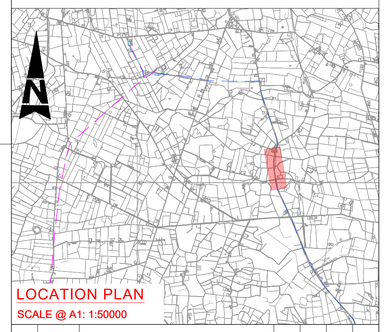
Trial Hole

Borehole Location

Dynamic Probe

Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann / Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 7 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

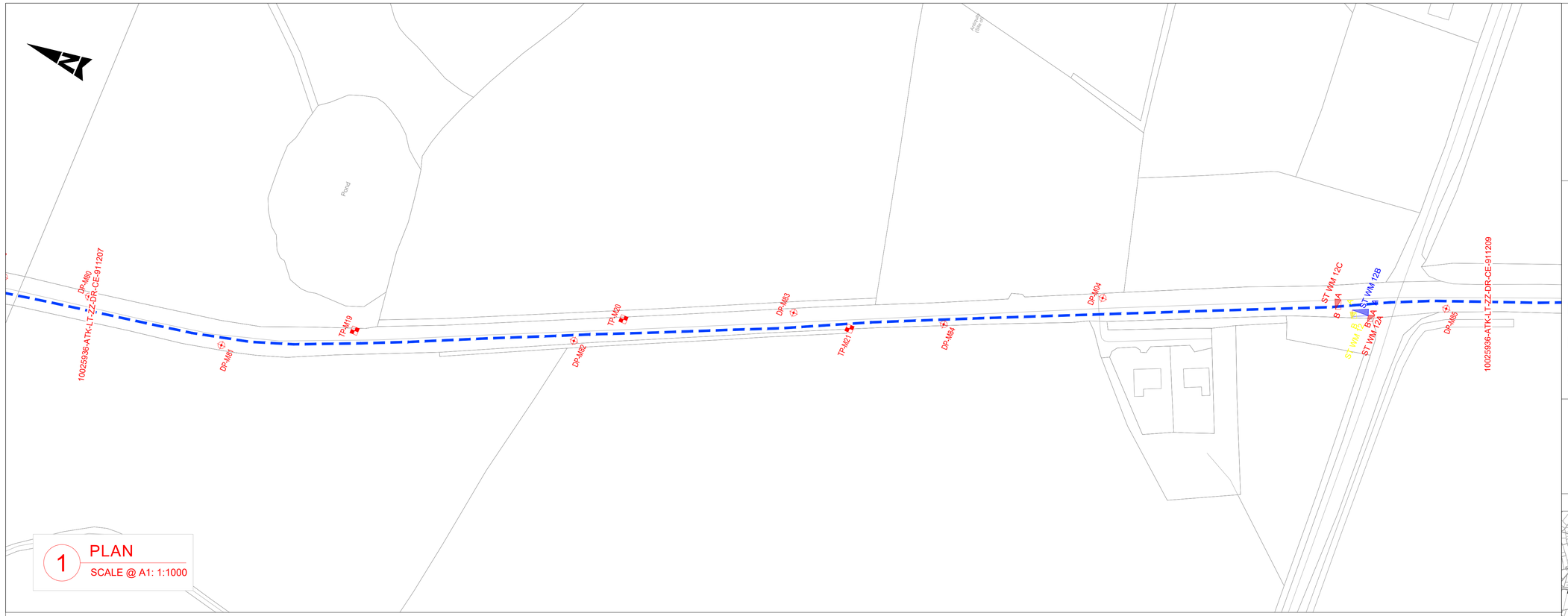
Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911207

Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

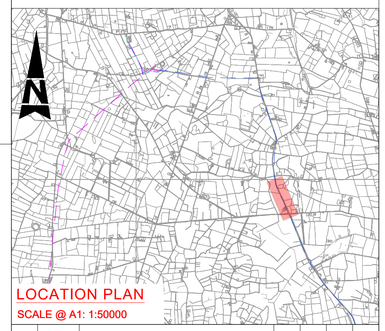
GENERAL NOTES

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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

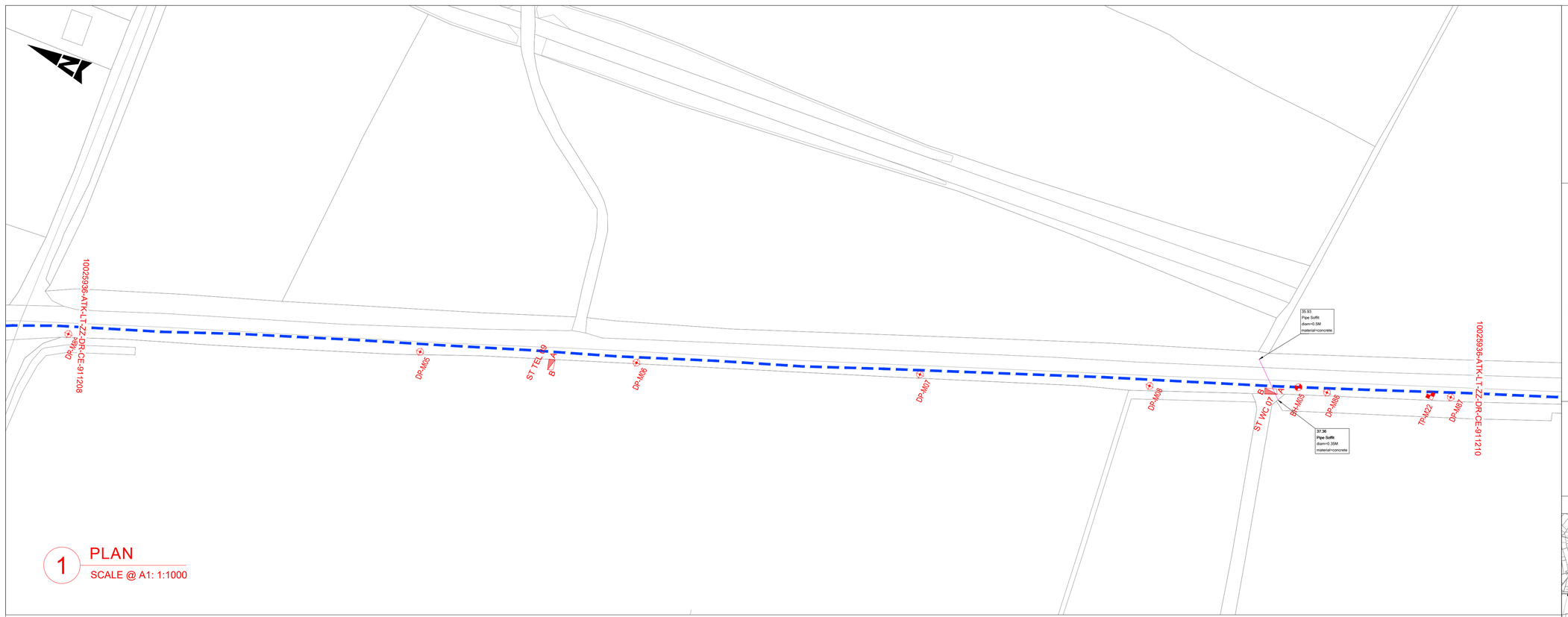
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 8 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size	Date	Date	Date	Date
A1	23.03.26	23.03.26	23.03.26	23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911208
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

GENERAL NOTES

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Legend

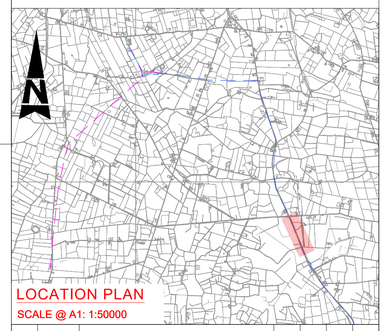
Trial Hole

Borehole Location

Dynamic Probe

Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DESIGNED DETAIL	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 9 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911209

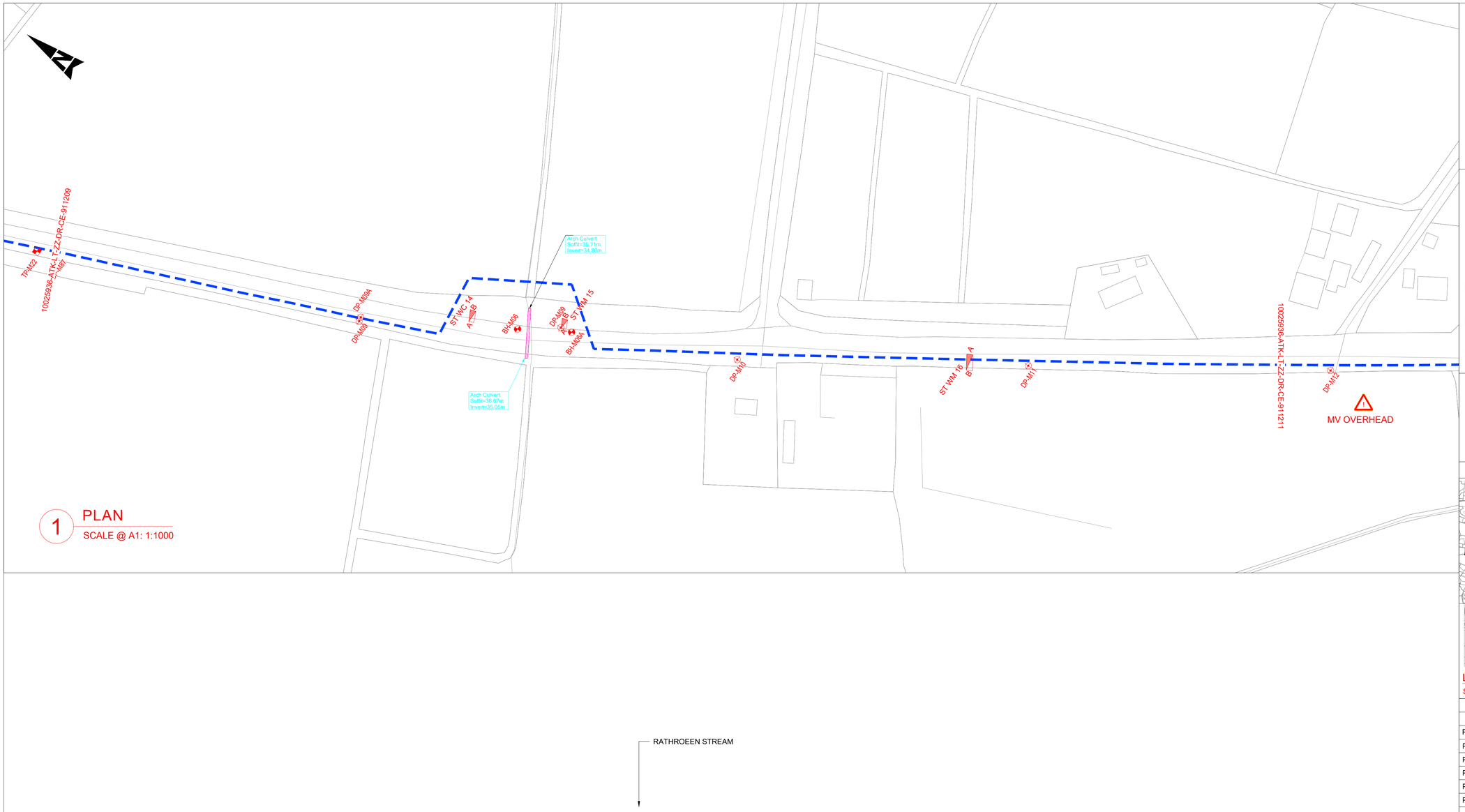
Revision: P05

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

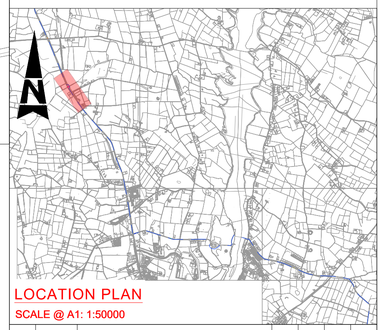
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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 10 OF 51

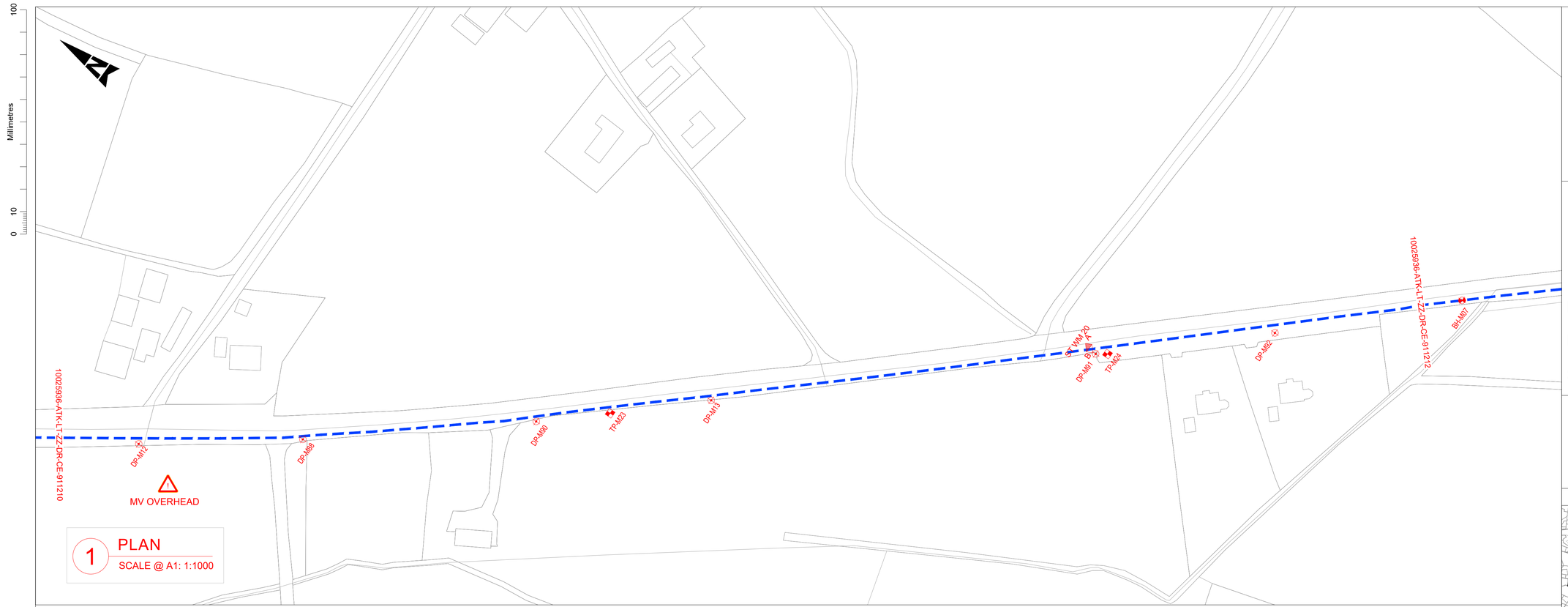
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AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911210

Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

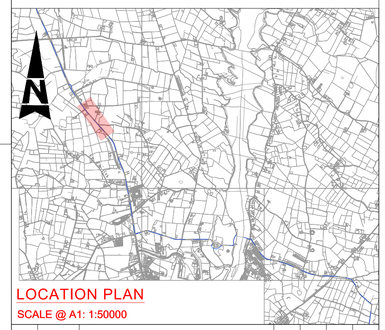
GENERAL NOTES

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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 11 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

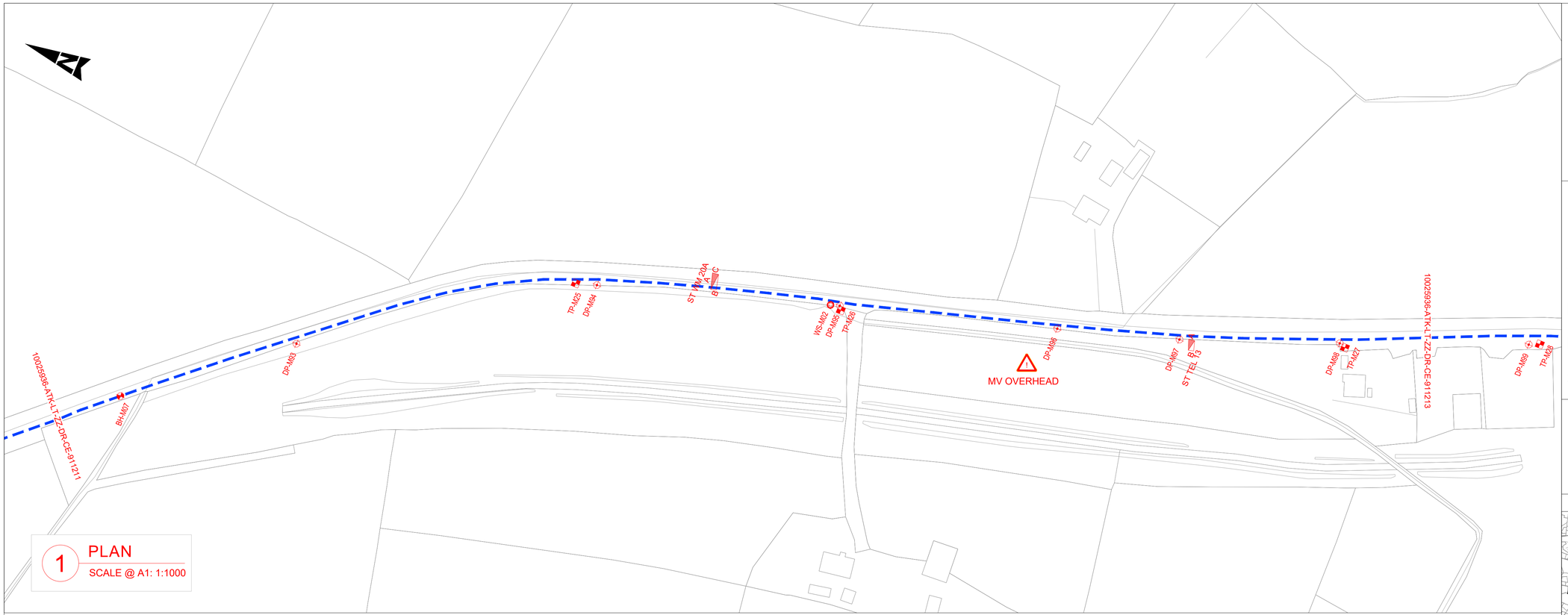
Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911211

Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

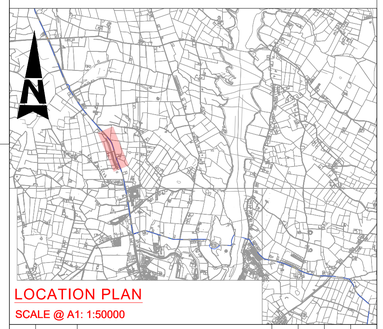
GENERAL NOTES

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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

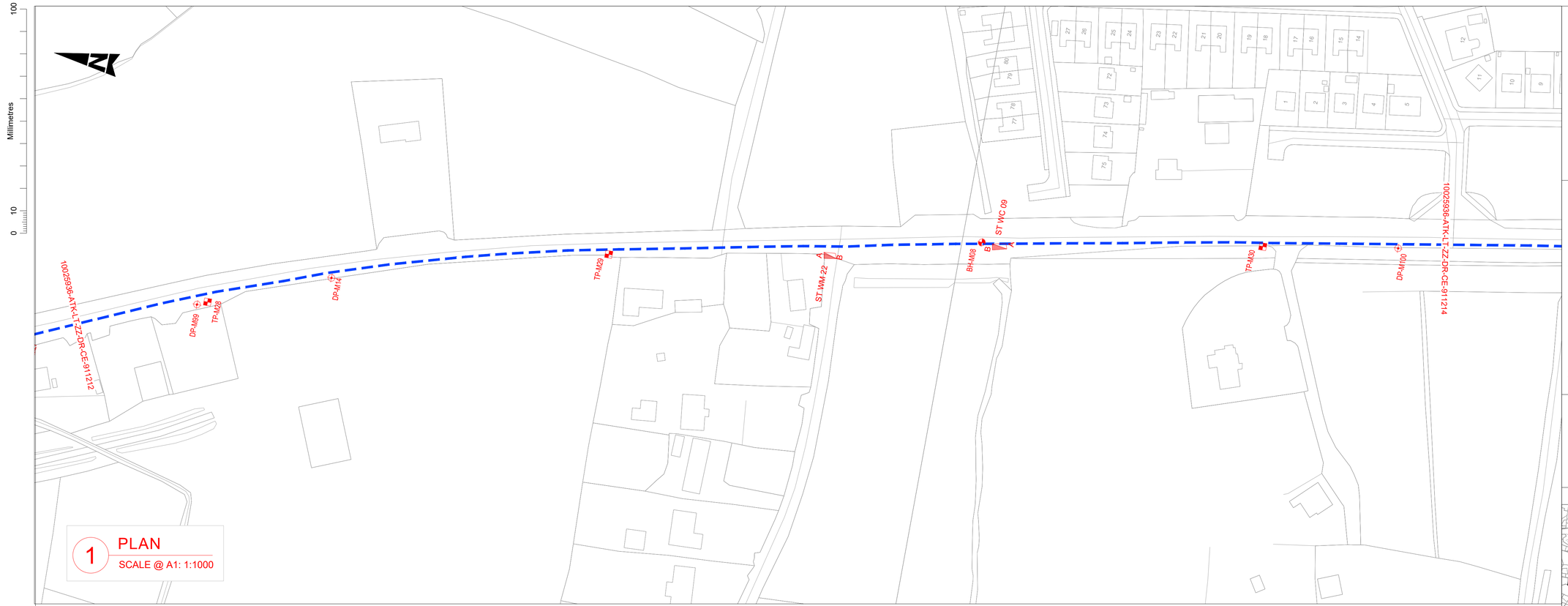
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 12 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911212
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
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Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
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Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann / Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

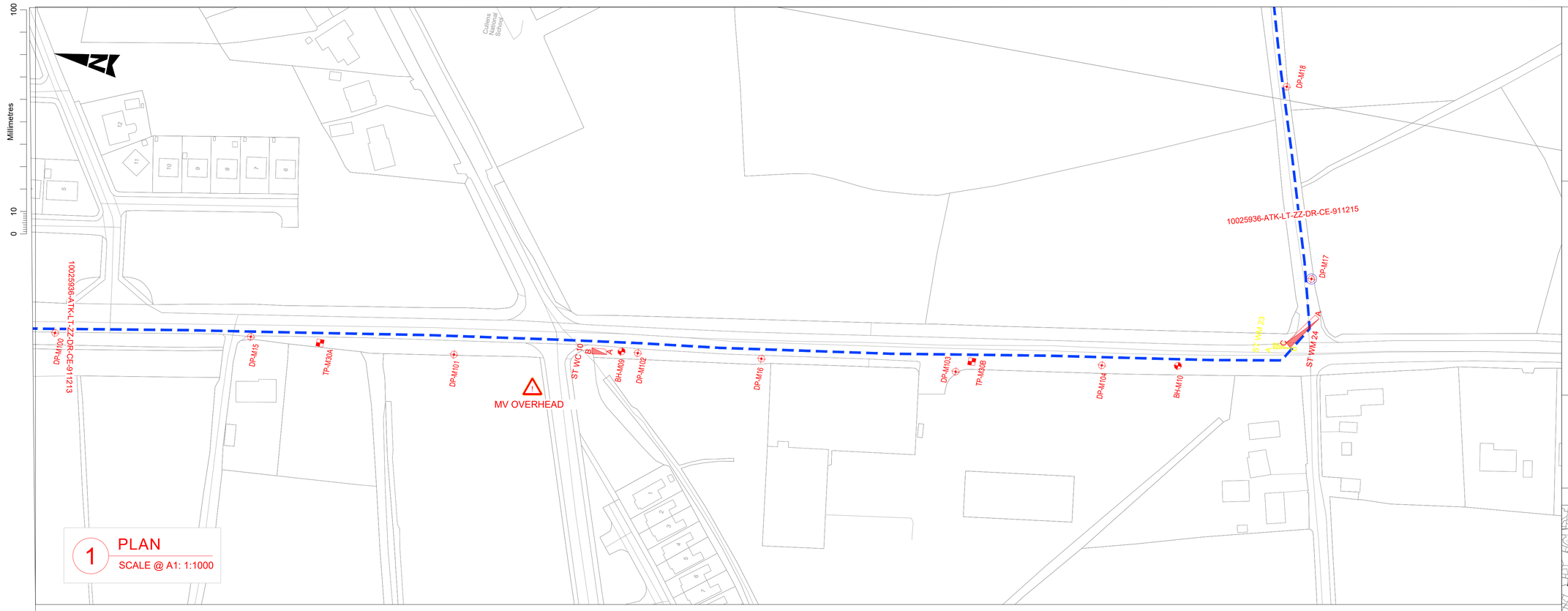
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 13 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size	Date	Date	Date	Date
A1	23.03.26	23.03.26	23.03.26	23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911213
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

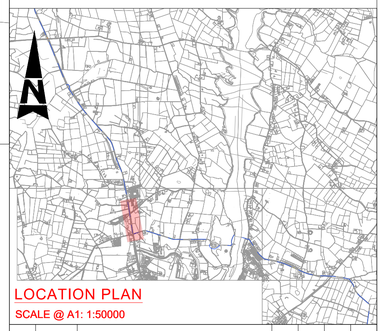
GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. ONLY WRITTEN DIMENSIONS SHALL BE USED. NO DIMENSIONS SHALL BE SCALED FROM THE DRAWINGS
3. ALL LEVELS ARE IN METRES AND ARE TO MALIN HEAD DATUM
4. ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 14 OF 51

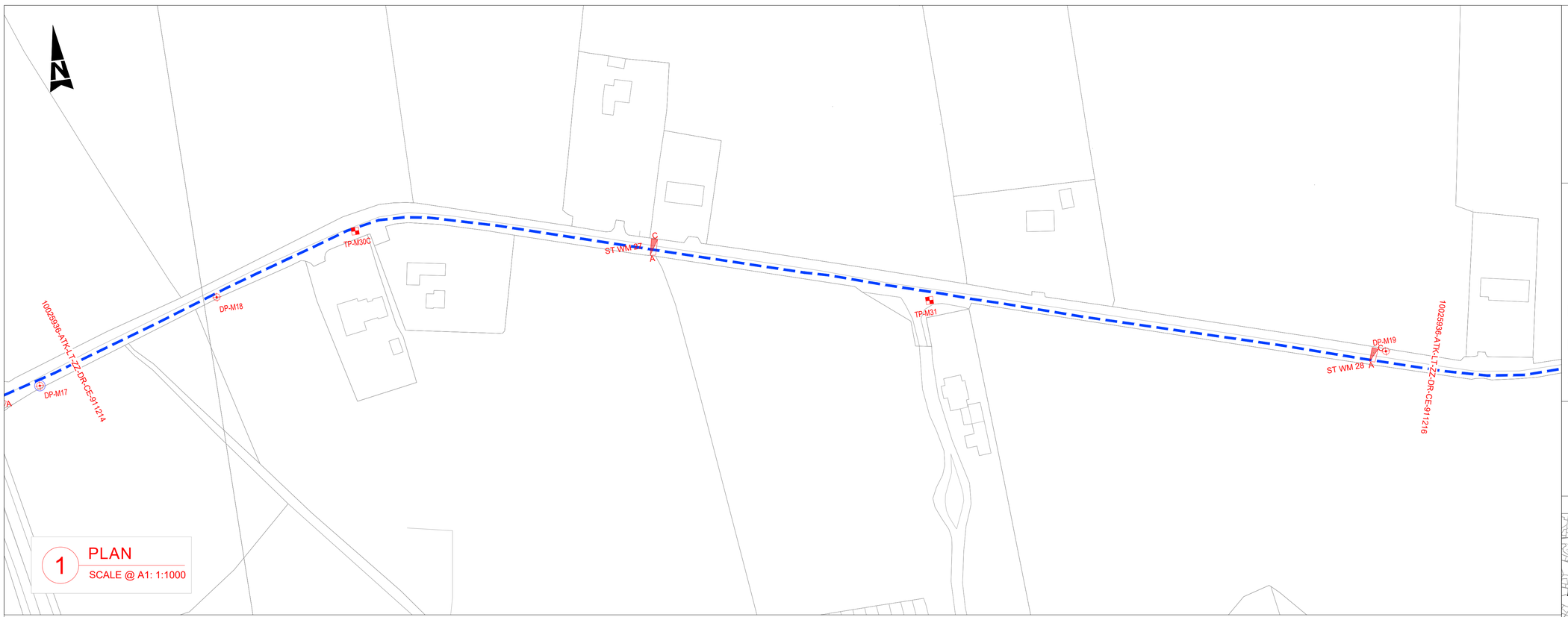
Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size	Date	Date	Date	Date
A1	23.03.26	23.03.26	23.03.26	23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911214
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

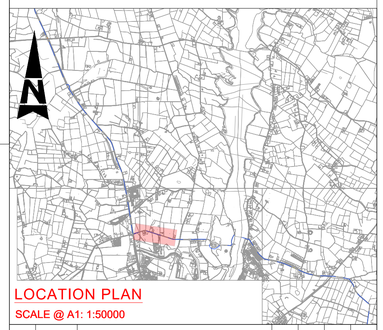
Trial Hole

Borehole Location

Dynamic Probe

Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 15 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

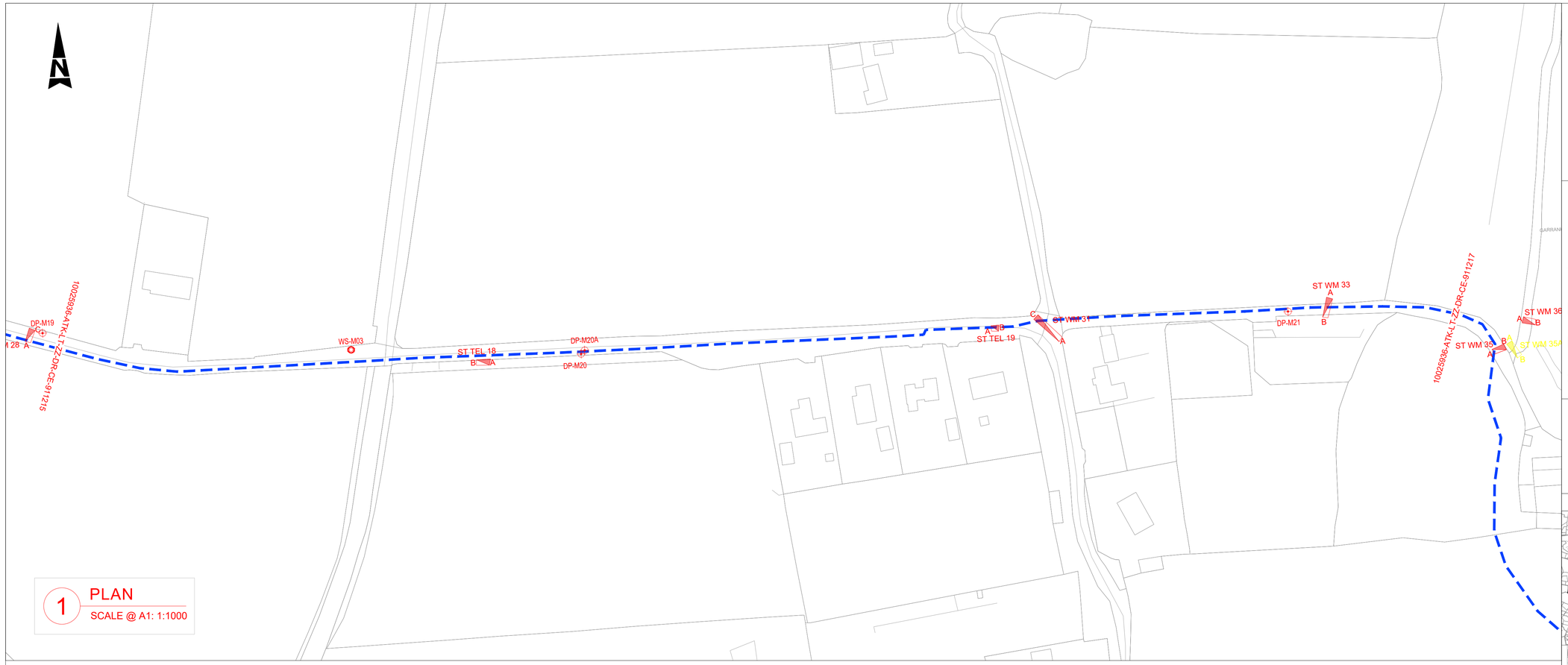
Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911215
Revision: P05

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

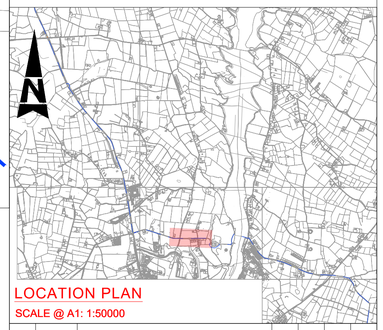
GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 16 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

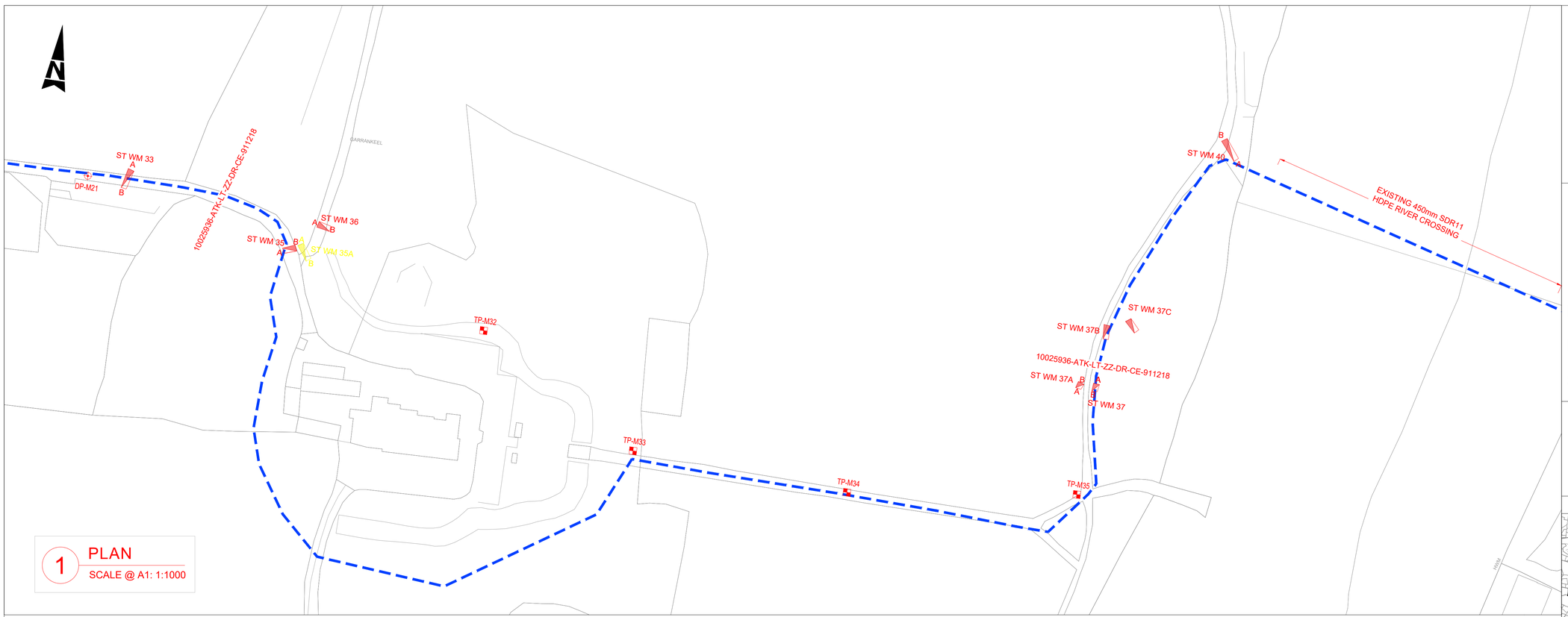
Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911216
Revision: P05

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

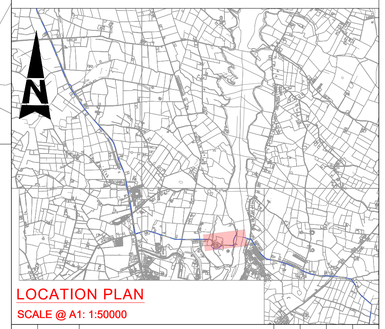
GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 17 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911217
Revision: P05

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

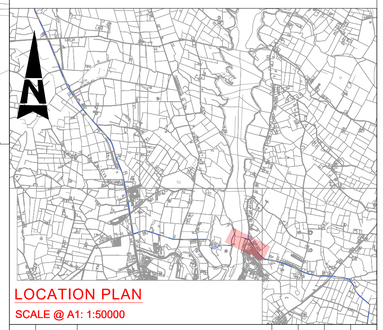
GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

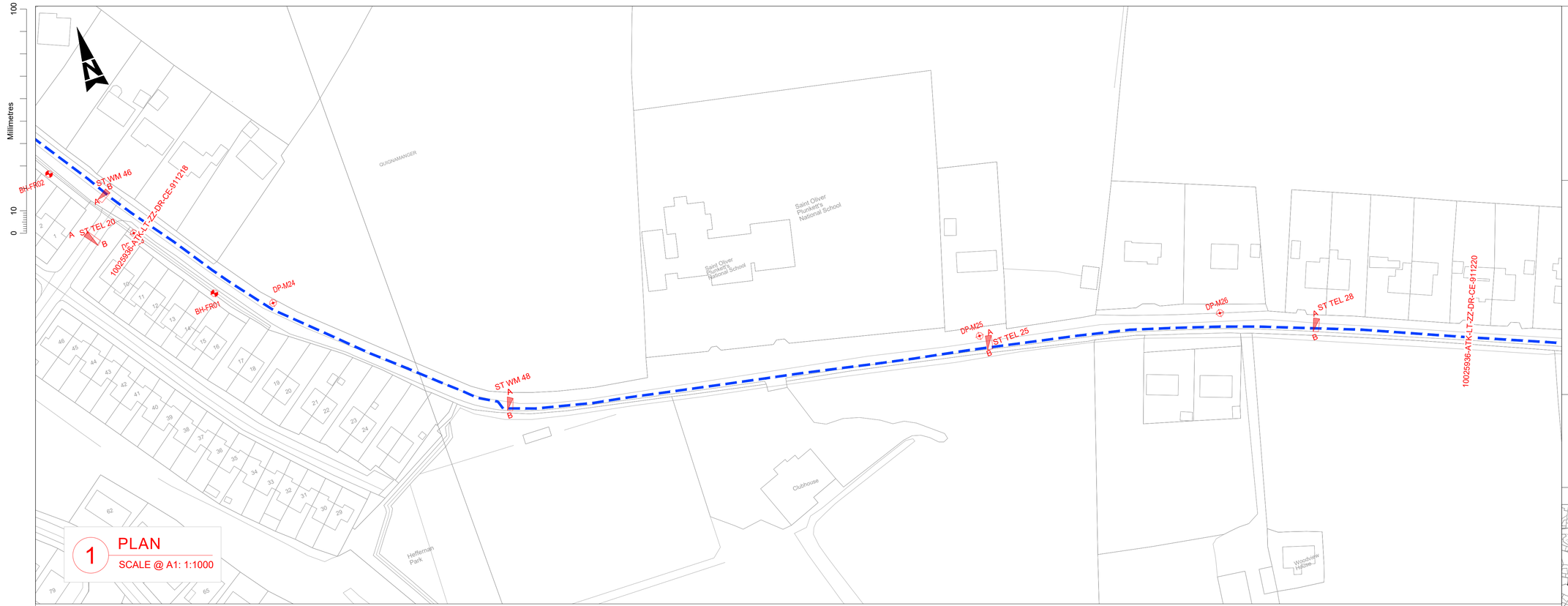
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 18 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911218
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

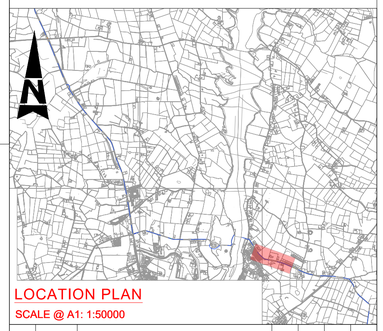
GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 19 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911219

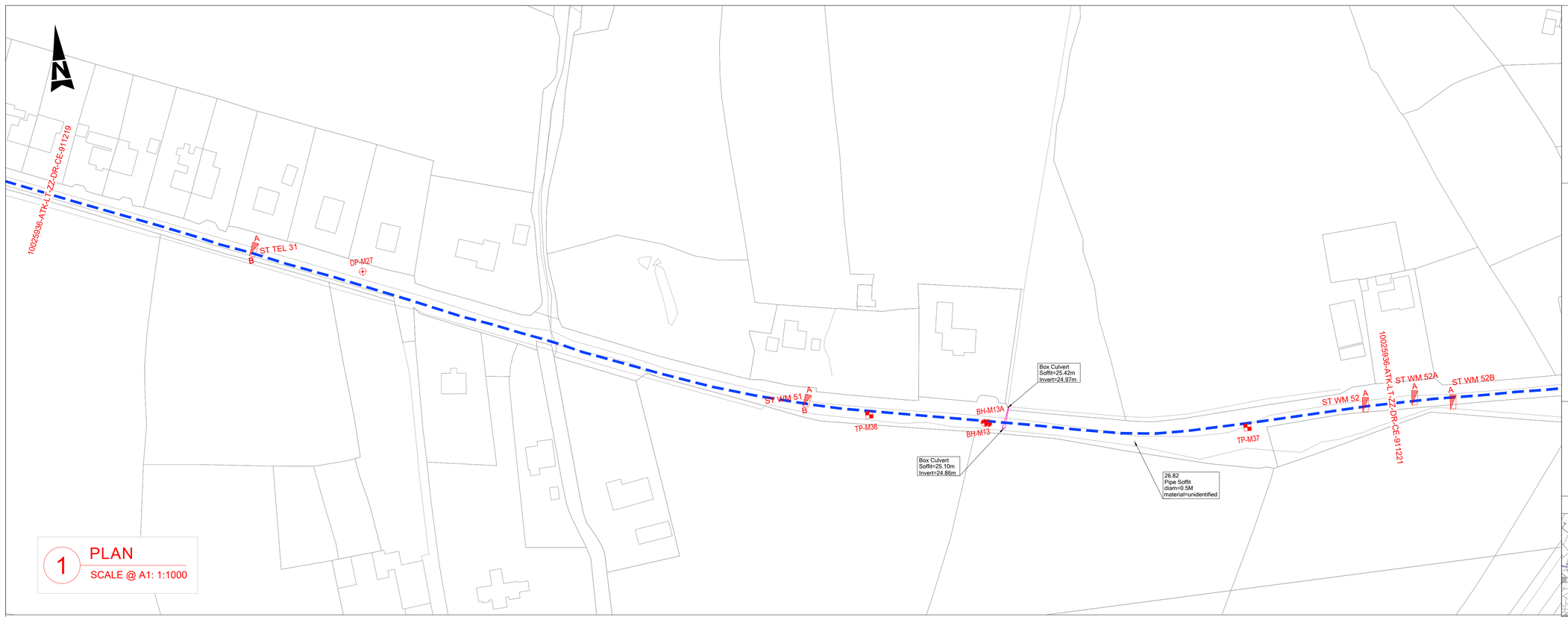
Revision: P05

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 100 10 0



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

GENERAL NOTES

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Legend

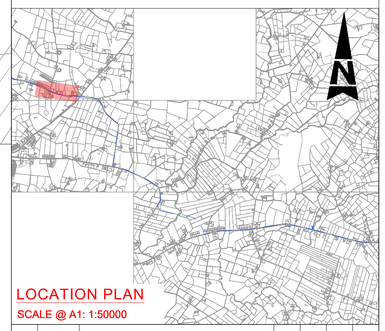
Trial Hole

Borehole Location

Dynamic Probe

Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 20 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911220

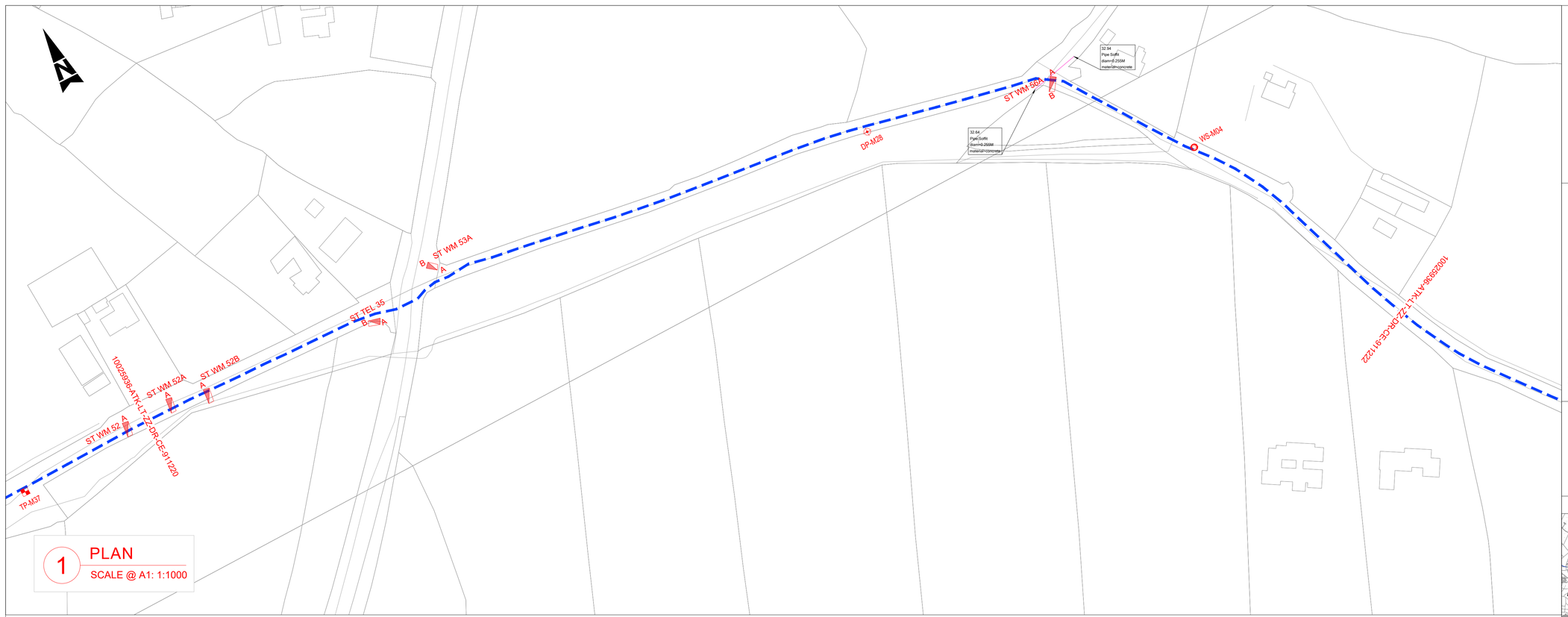
Revision: P05

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

GENERAL NOTES

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Legend

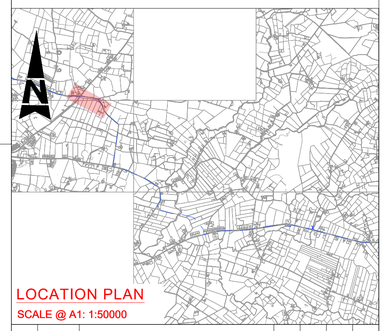
Trial Hole

Borehole Location

Dynamic Probe

Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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DUBLIN | CORK | GALWAY | DUNDALK
ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 21 OF 51

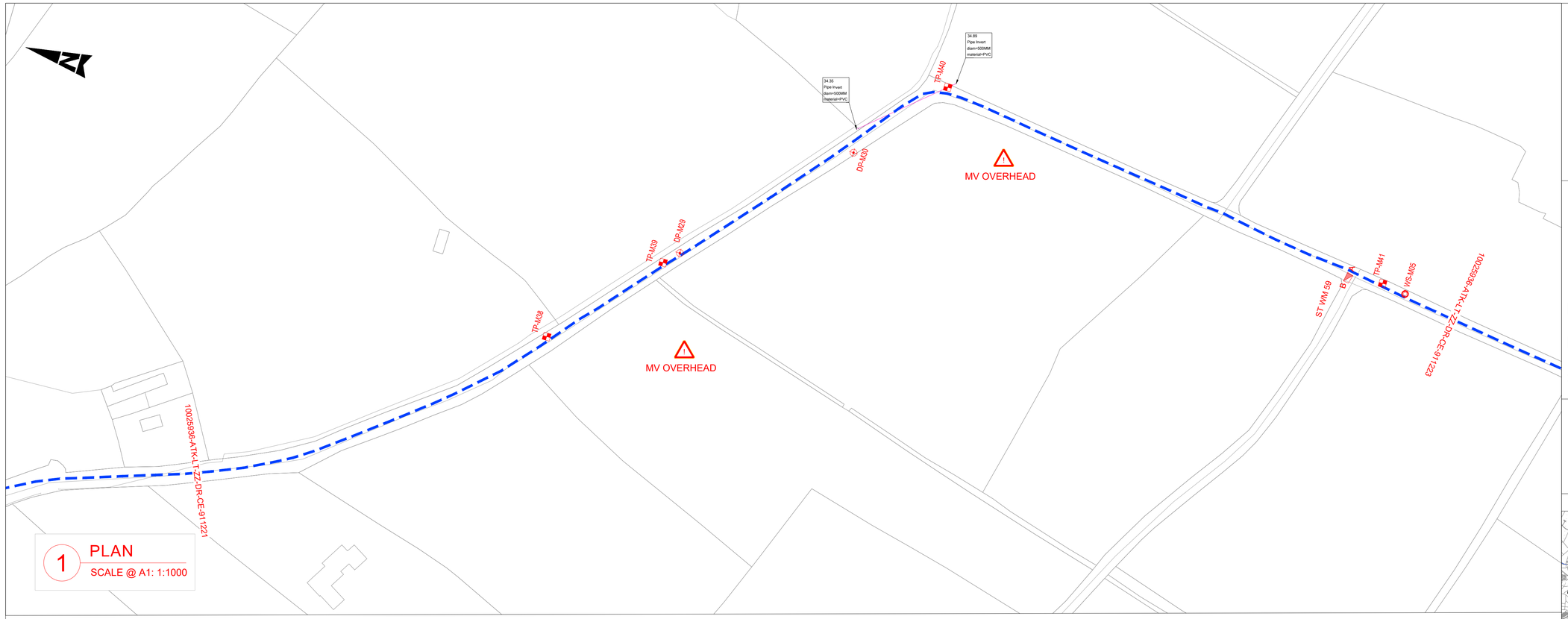
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AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911221
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 100 10 0



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

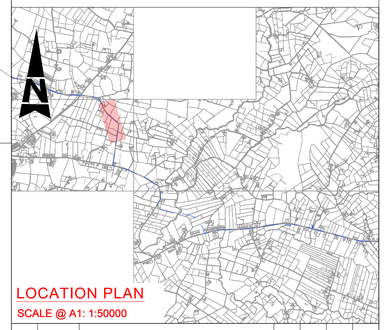
GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. ONLY WRITTEN DIMENSIONS SHALL BE USED. NO DIMENSIONS SHALL BE SCALED FROM THE DRAWINGS
3. ALL LEVELS ARE IN METRES AND ARE TO MALIN HEAD DATUM
4. ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 22 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911222
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

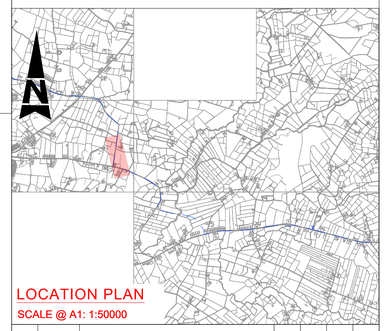
GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

AtkinsRéalis
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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 23 OF 51

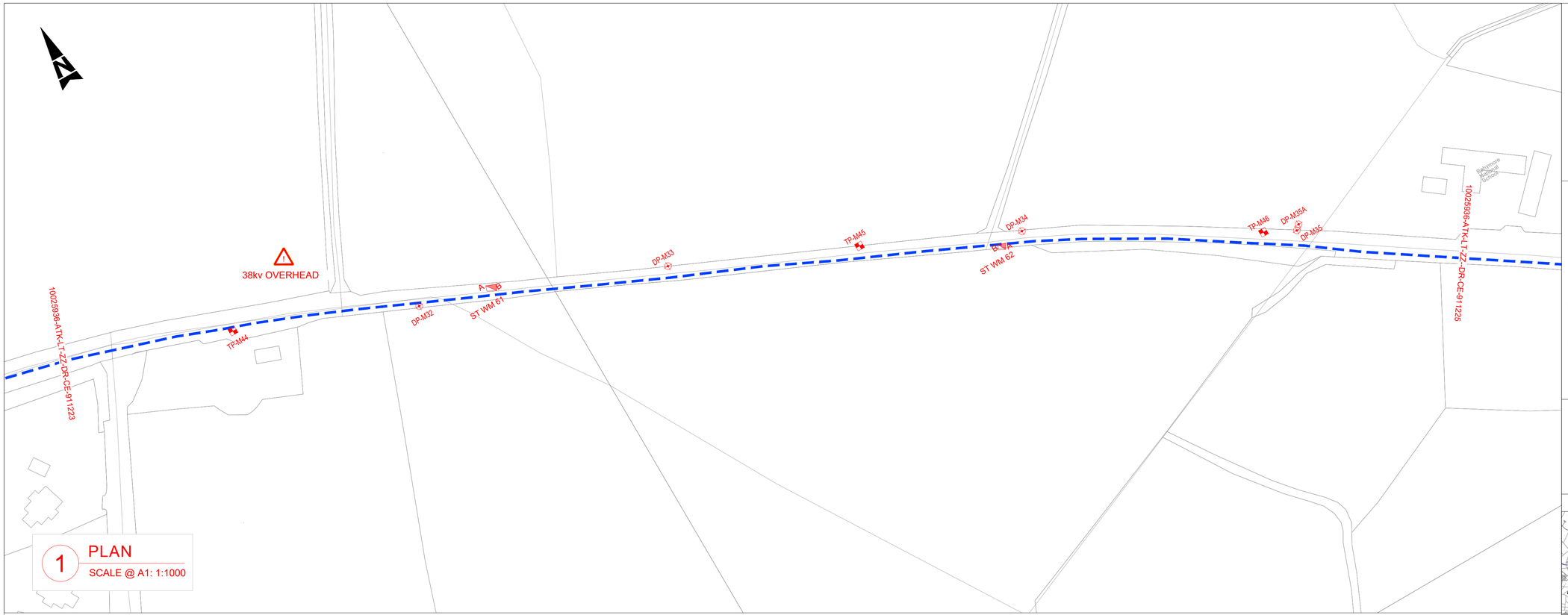
Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911223
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 100 10 0



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

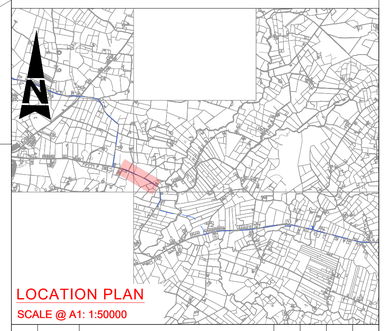
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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 24 OF 51

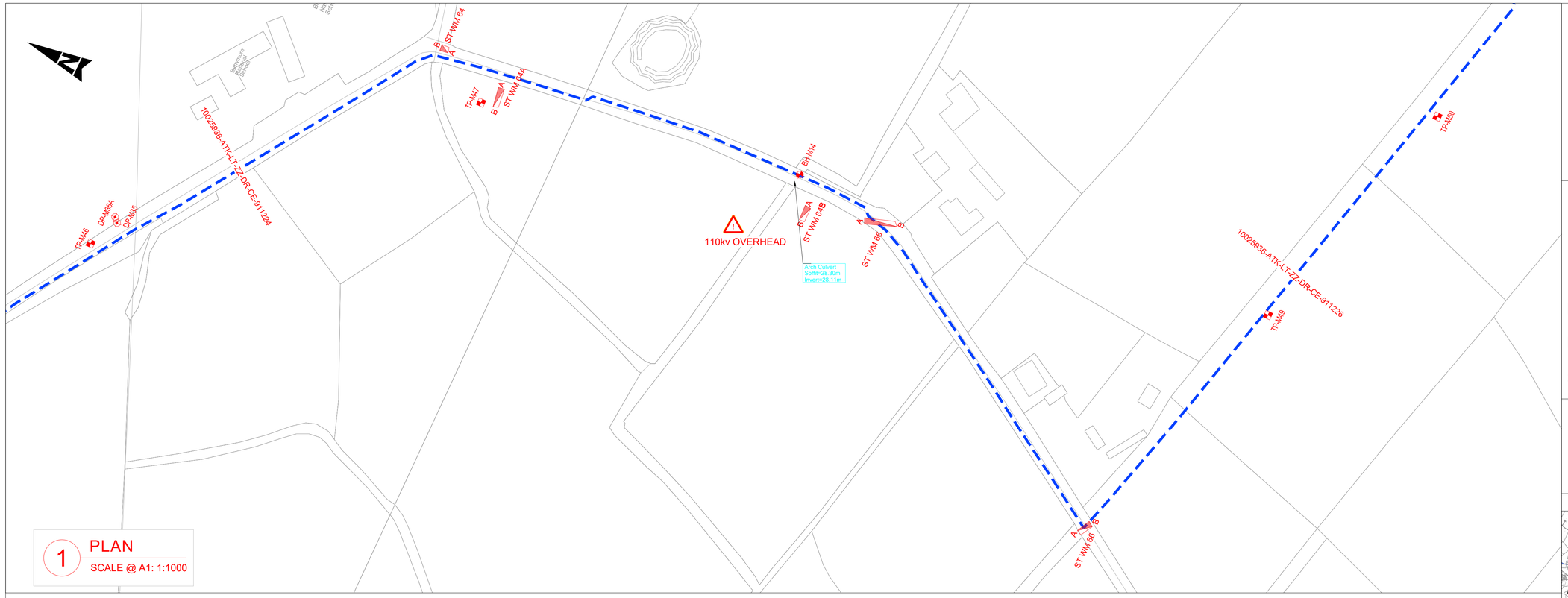
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AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911224
Revision: P05

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Internal Project Number: 100089328

DO NOT SCALE





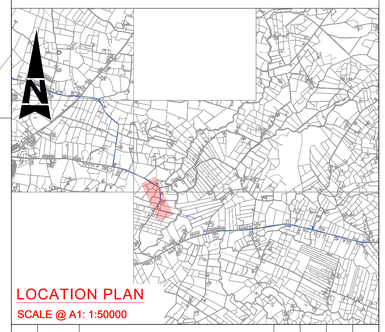
GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

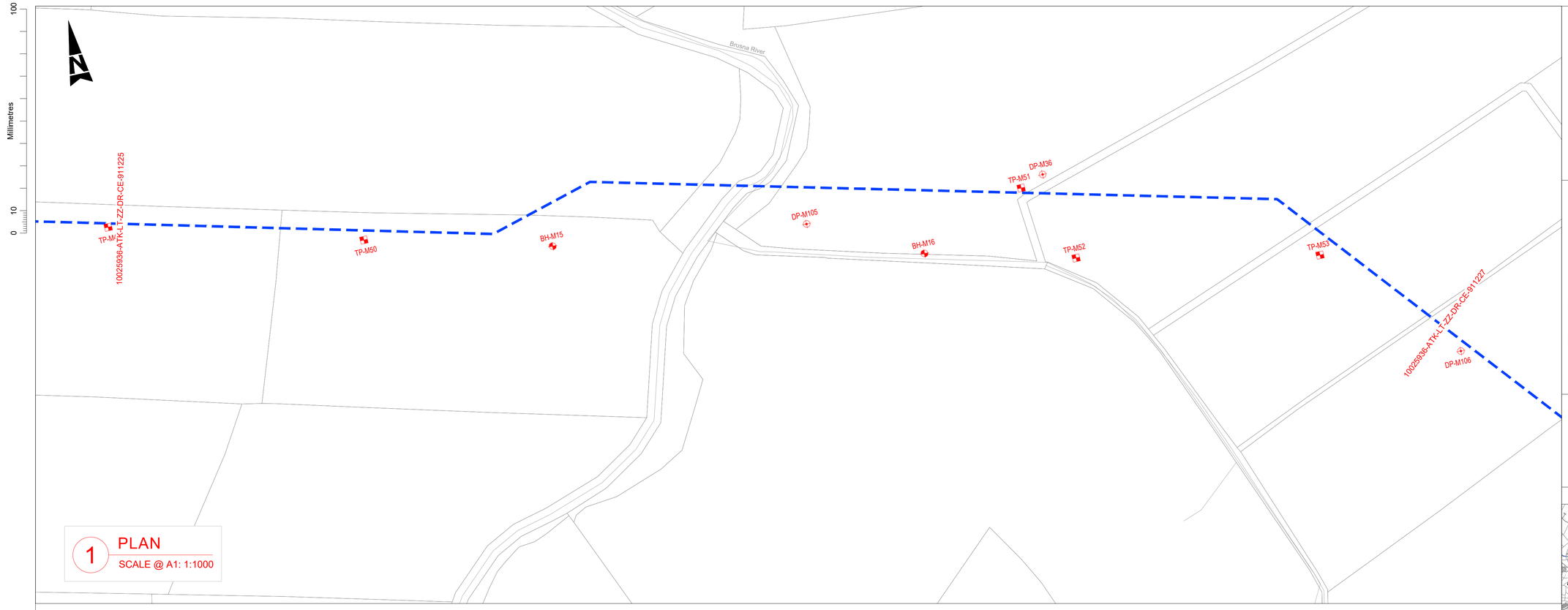
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 25 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size	Date	Date	Date	Date
A1	23.03.26	23.03.26	23.03.26	23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911225
Revision: P04

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

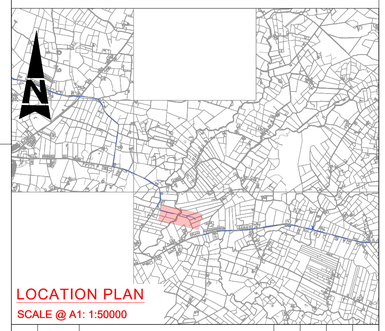
GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
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P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

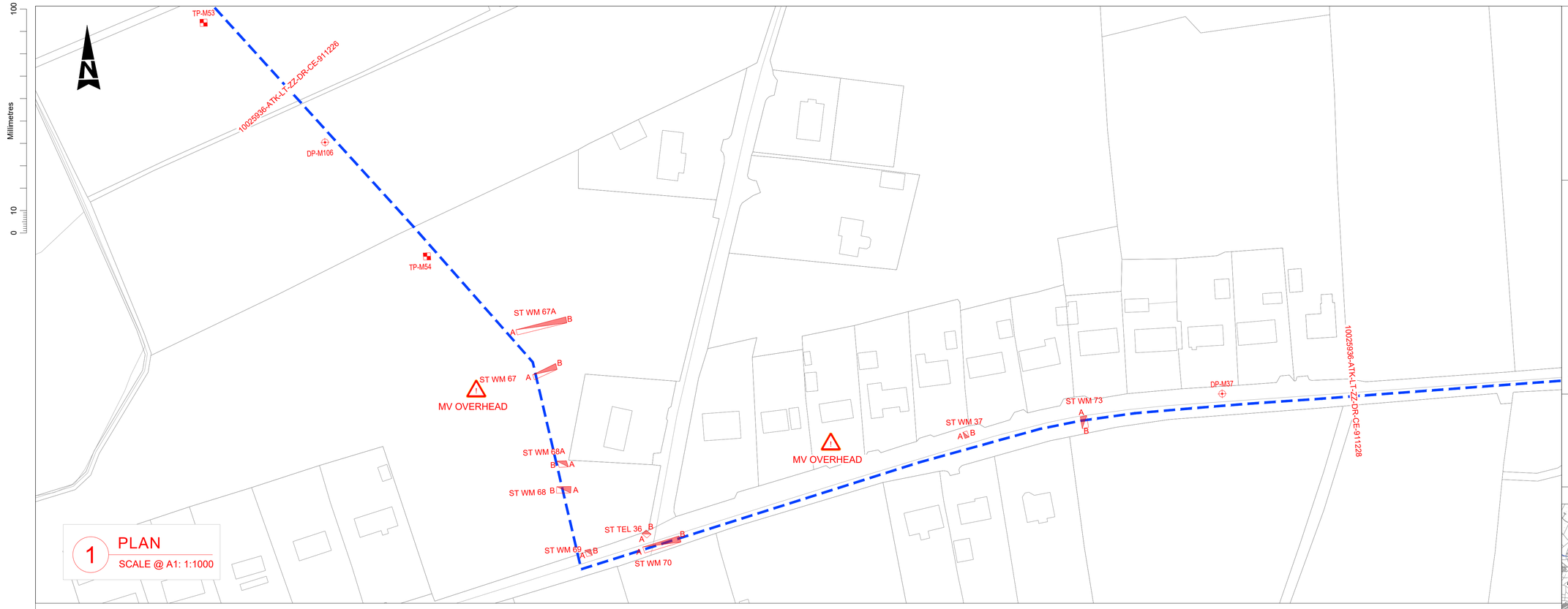
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 26 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911226
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

GENERAL NOTES

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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie

LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann / Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 27 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

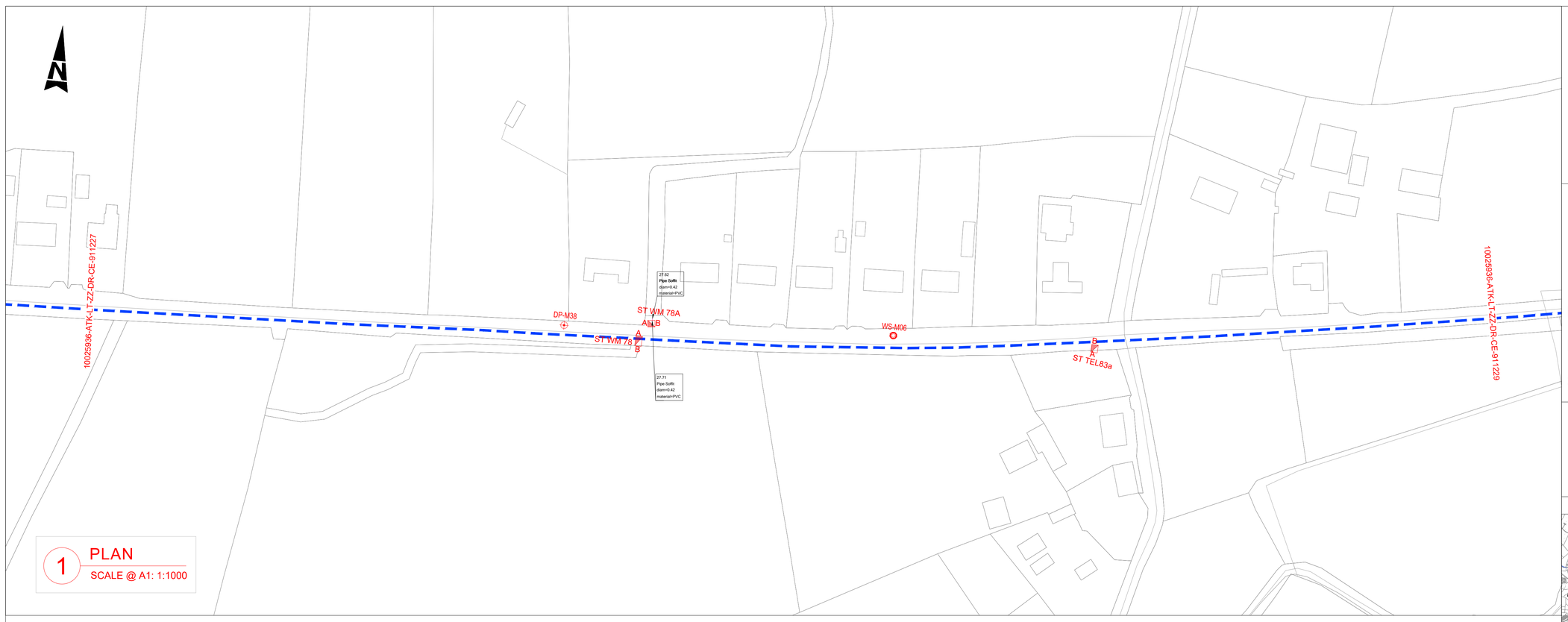
Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911227

Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

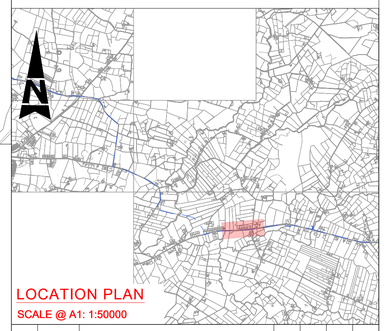
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Legend

Trial Hole
Borehole Location
Dynamic Probe
Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

AtkinsRéalis
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Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 28 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

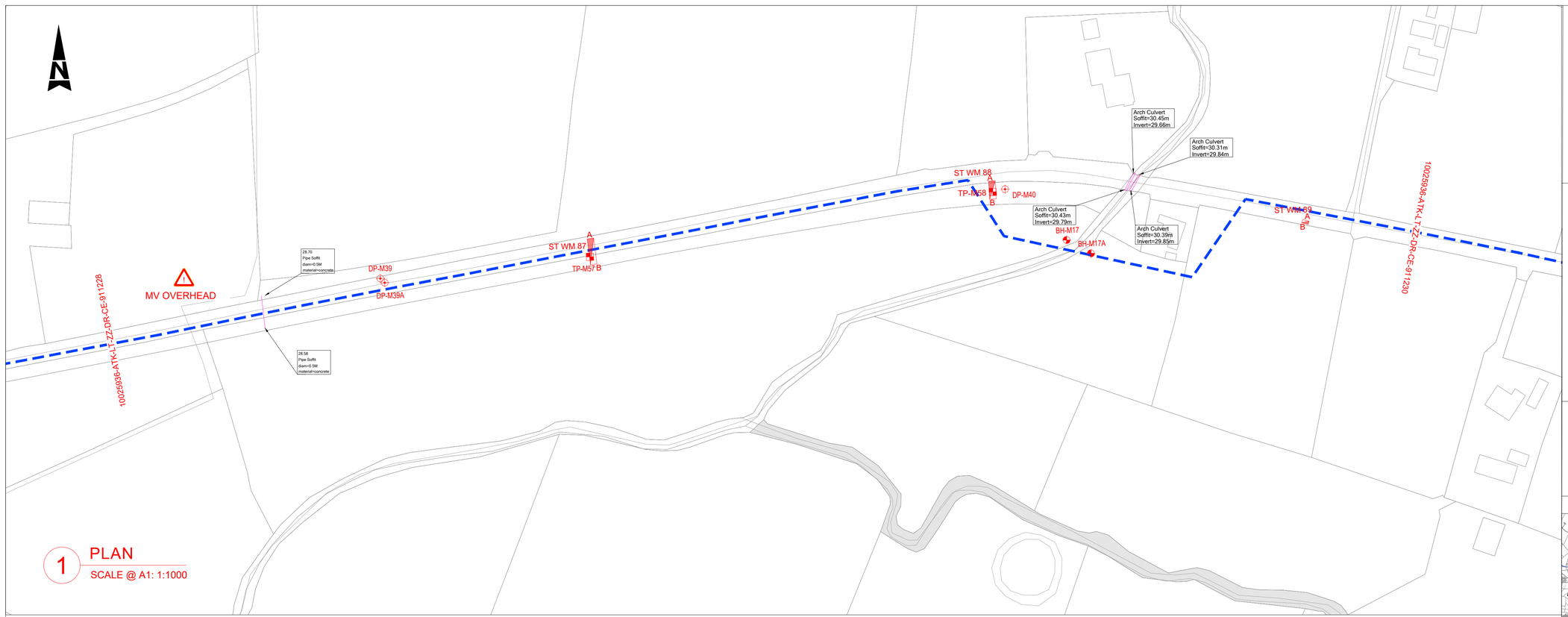
Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911228
Revision: P05

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN

SCALE @ A1: 1:1000



2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

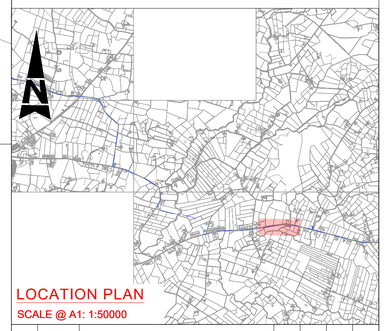
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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

AtkinsRéalis

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 29 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

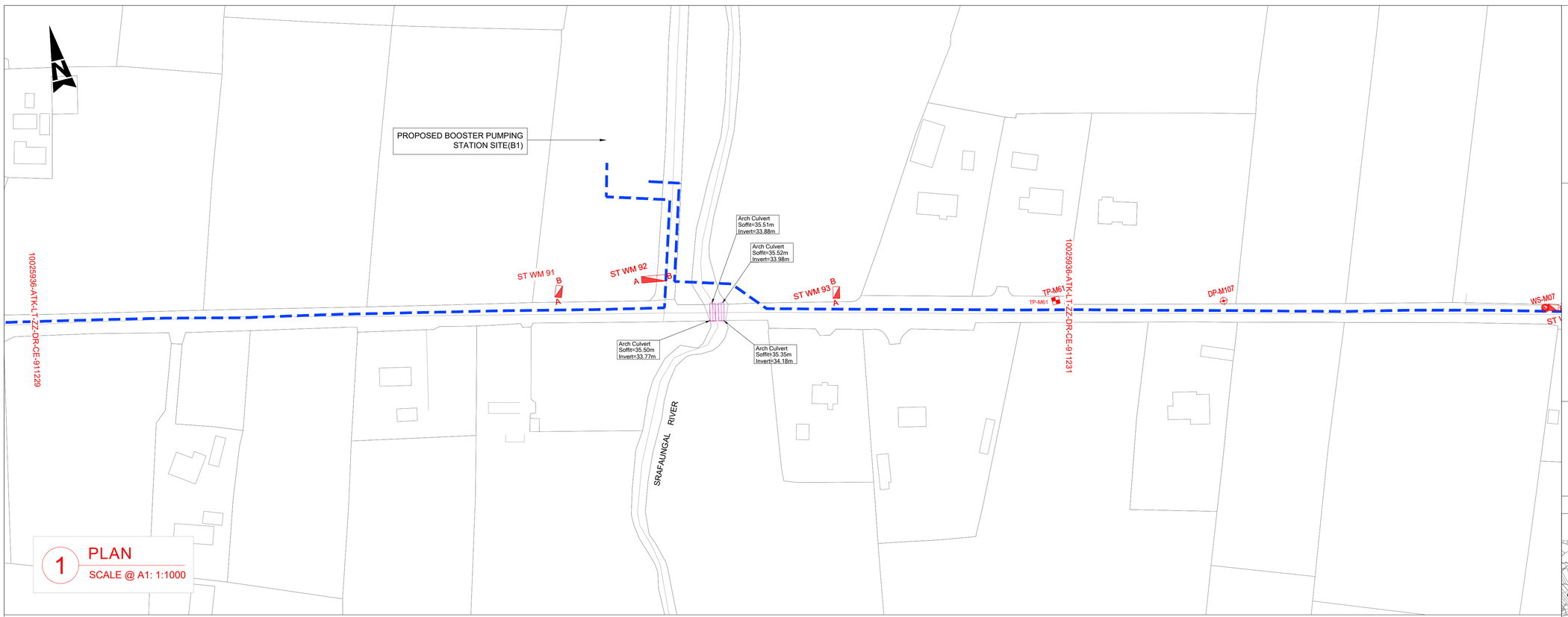
Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911229

Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 100 0 10



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

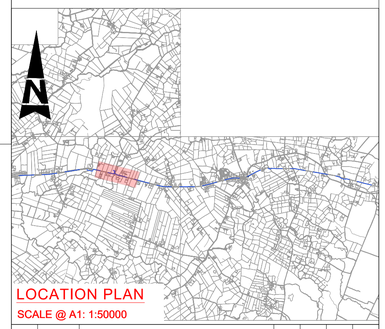
GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. ONLY WRITTEN DIMENSIONS SHALL BE USED. NO DIMENSIONS SHALL BE SCALED FROM THE DRAWINGS
3. ALL LEVELS ARE IN METRES AND ARE TO MALIN HEAD DATUM
4. ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 30 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911230

Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

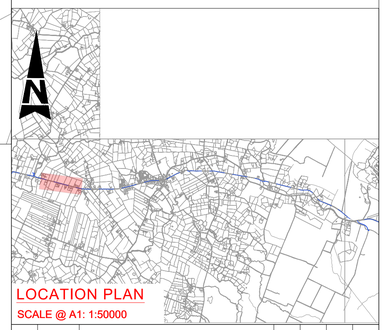
GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 31 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911231

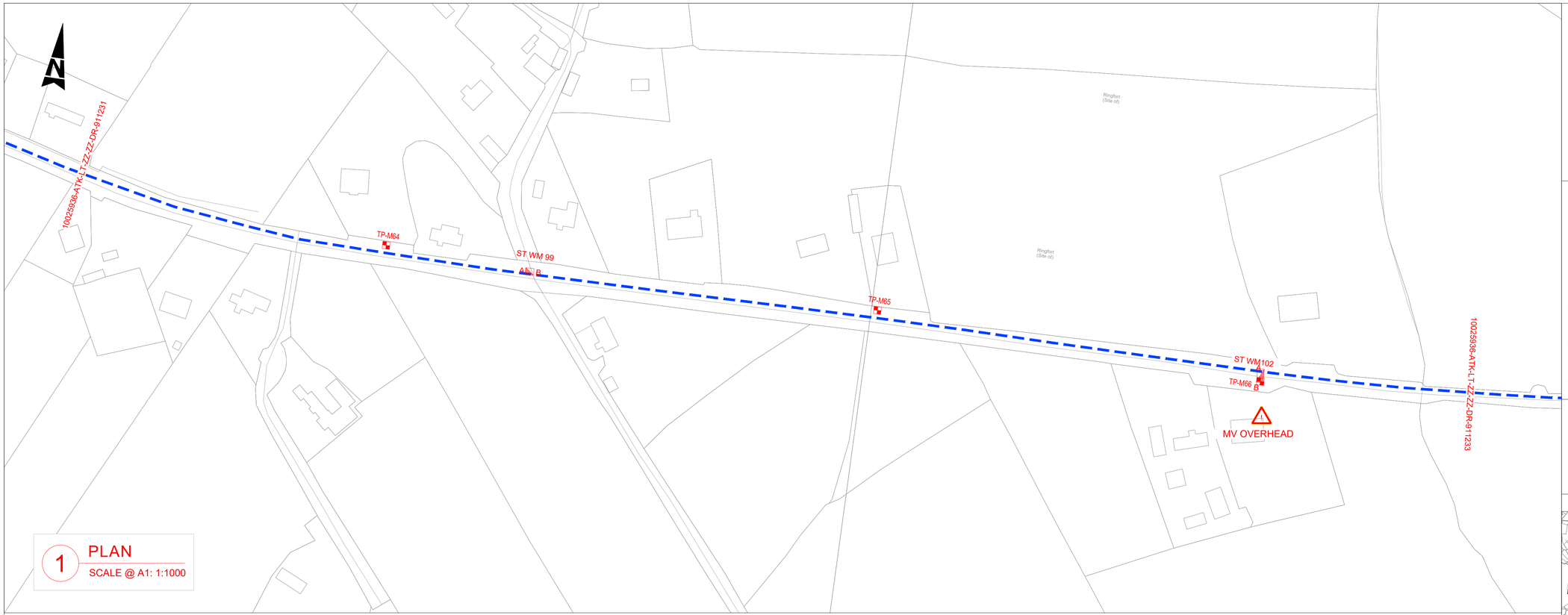
Revision: P05

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 100 10 0



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

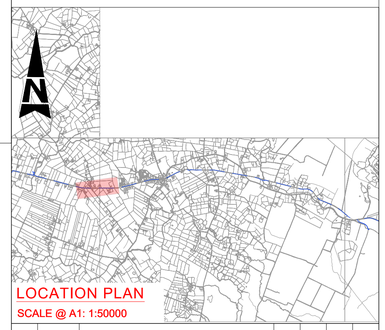
Trial Hole

Borehole Location

Dynamic Probe

Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 32 OF 51

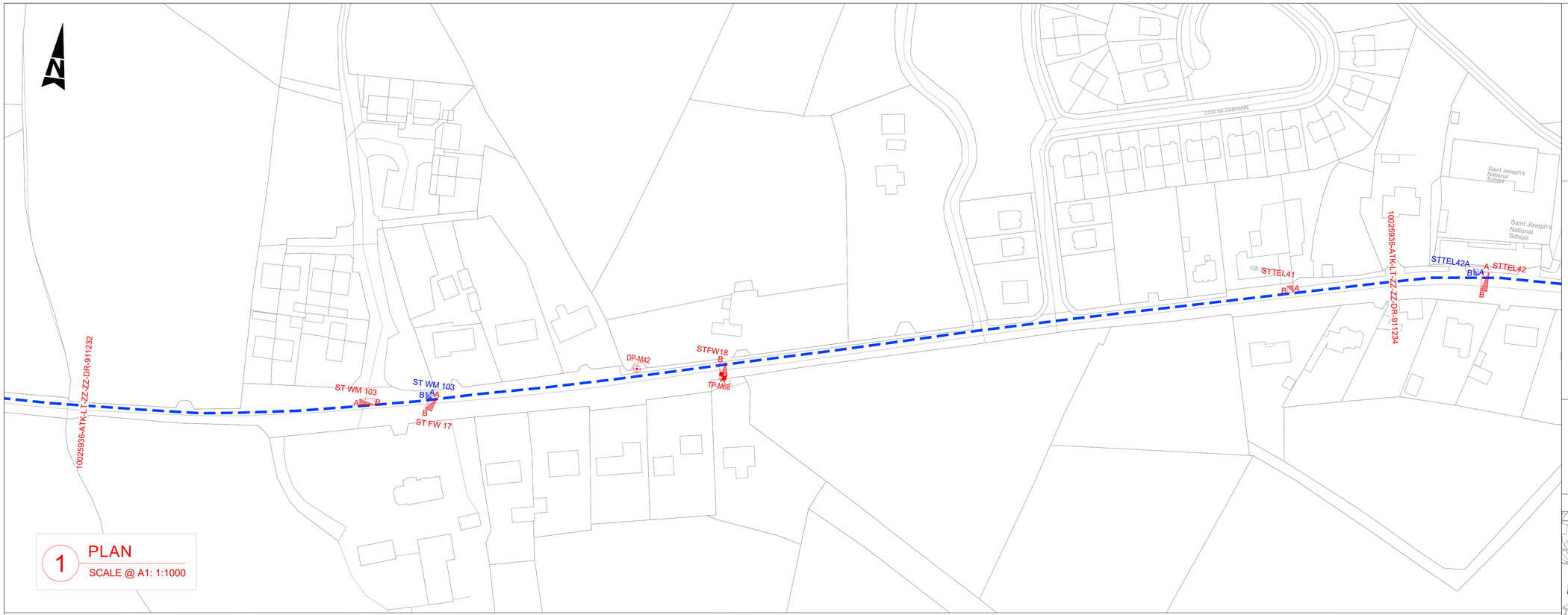
Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911232
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

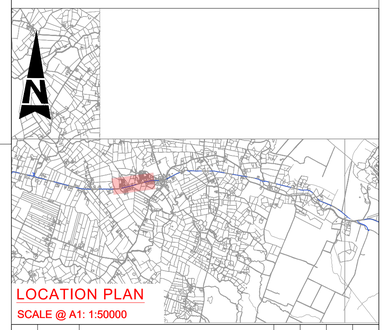
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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 33 OF 51

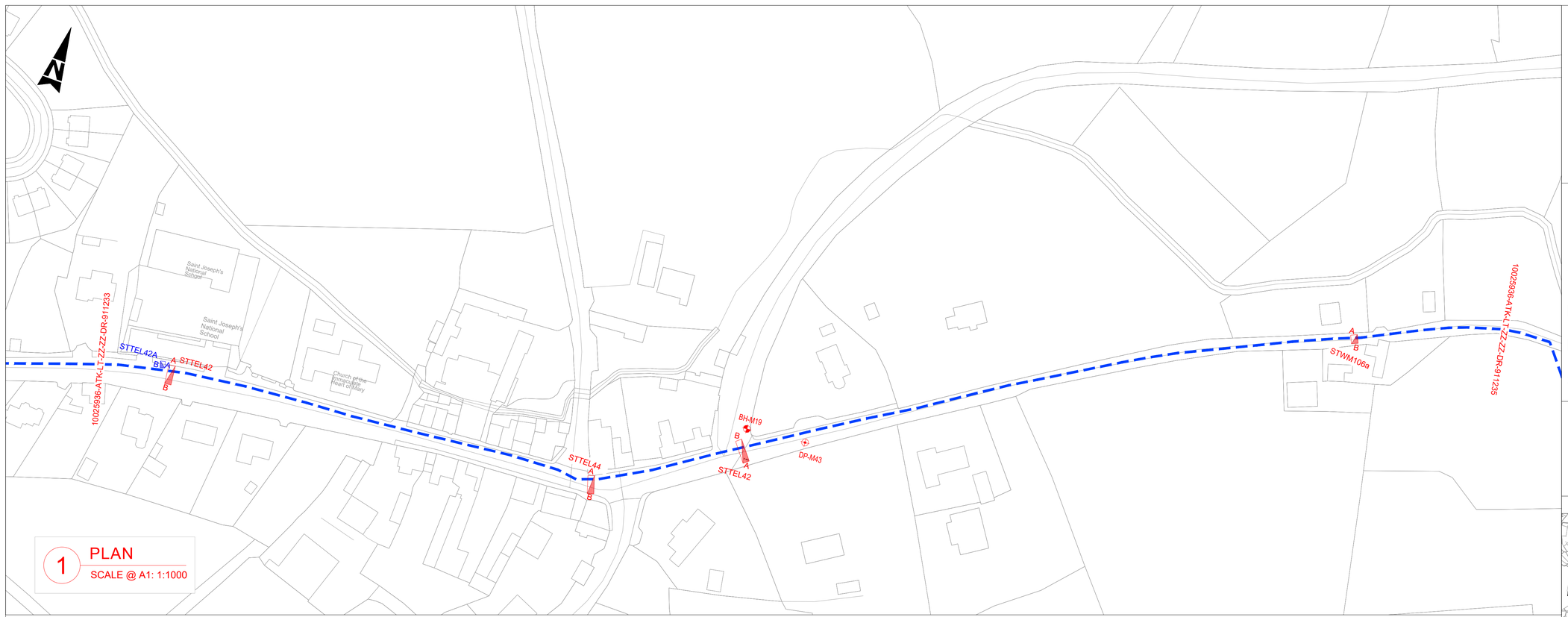
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AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911233
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 100 10 0



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

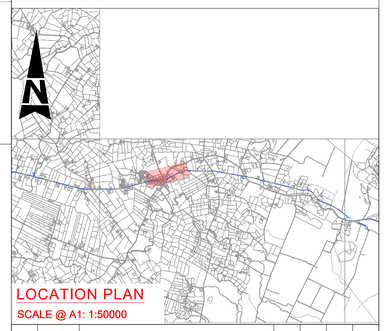
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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title
BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title
LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 34 OF 51

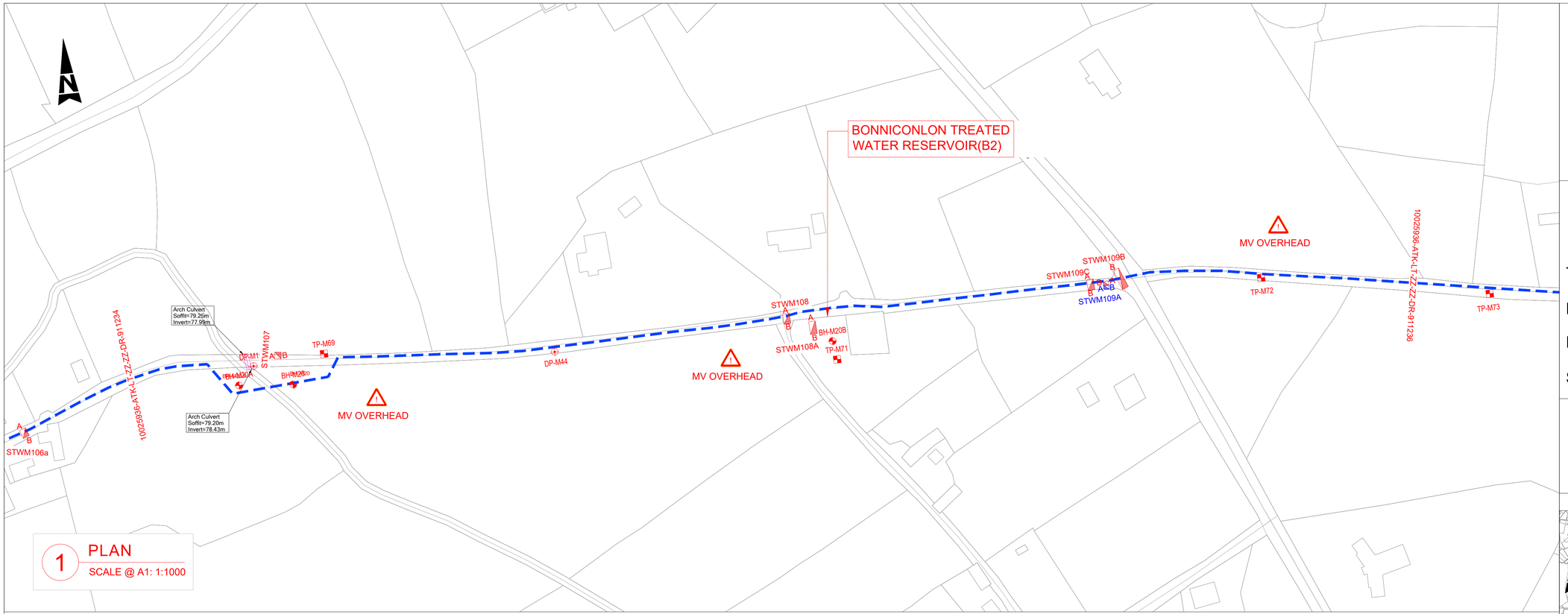
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AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911234
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 100 0 10



1 PLAN
SCALE @ A1: 1:1000

BUNNYCONNELLAN WEST STREAM

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

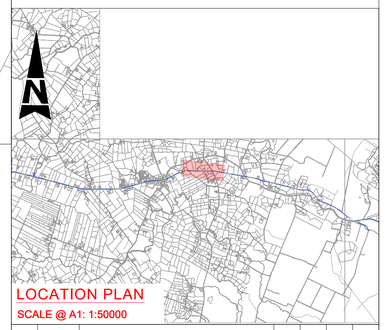
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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 35 OF 51

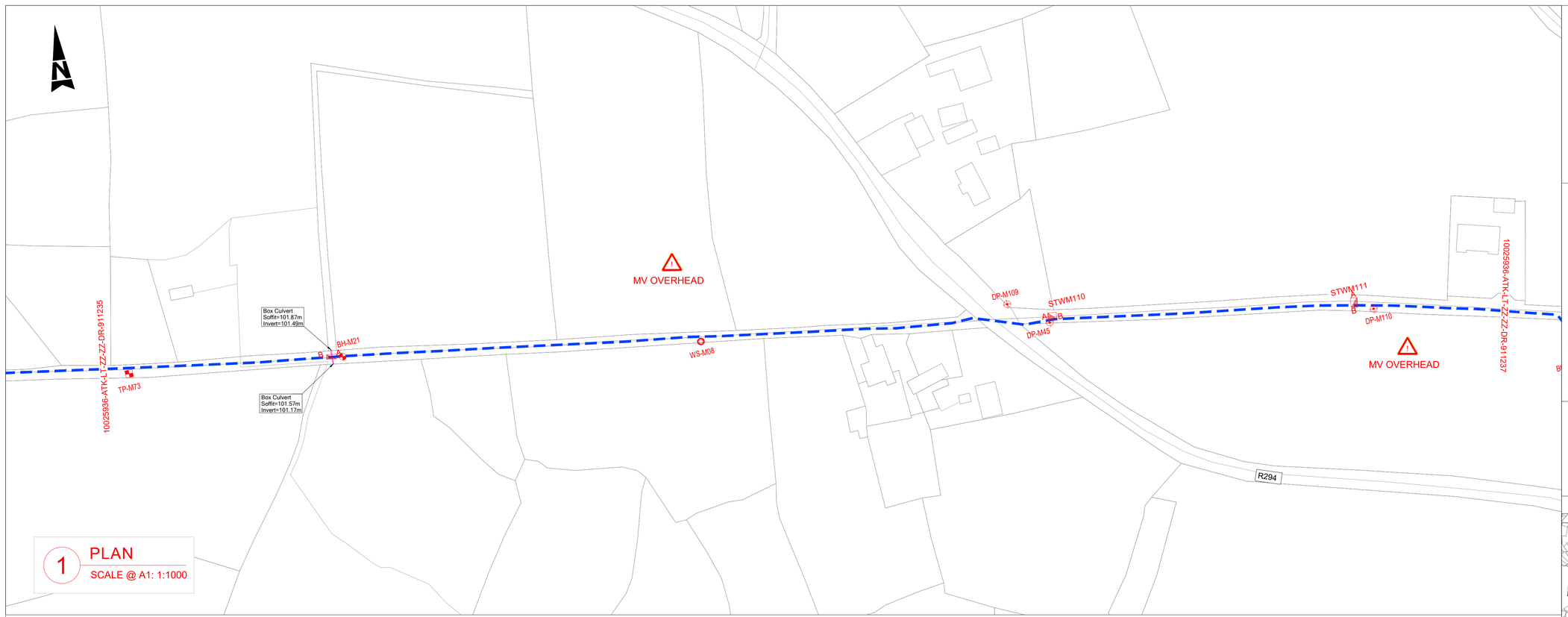
Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911235
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 100 0 10



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

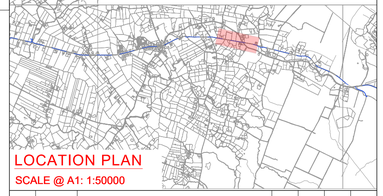
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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
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P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION
SHEET 36 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM/AMQ	MM/DB	RK/SJB	RK/NR
Original Size: A1	Date: 23.03.26/23.09.24	Date: 23.03.26/23.09.24	Date: 23.03.26/23.09.24	Date: 23.03.26/23.09.24

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911236
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

SRAFAUNGAL STREAM

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

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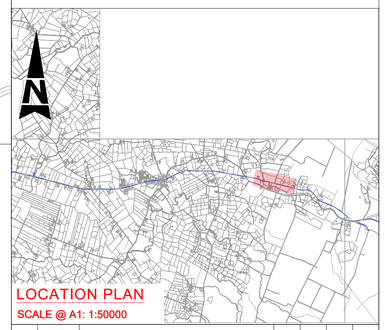
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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
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P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

AtkinsRéalis
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Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION
SHEET 37 OF 51

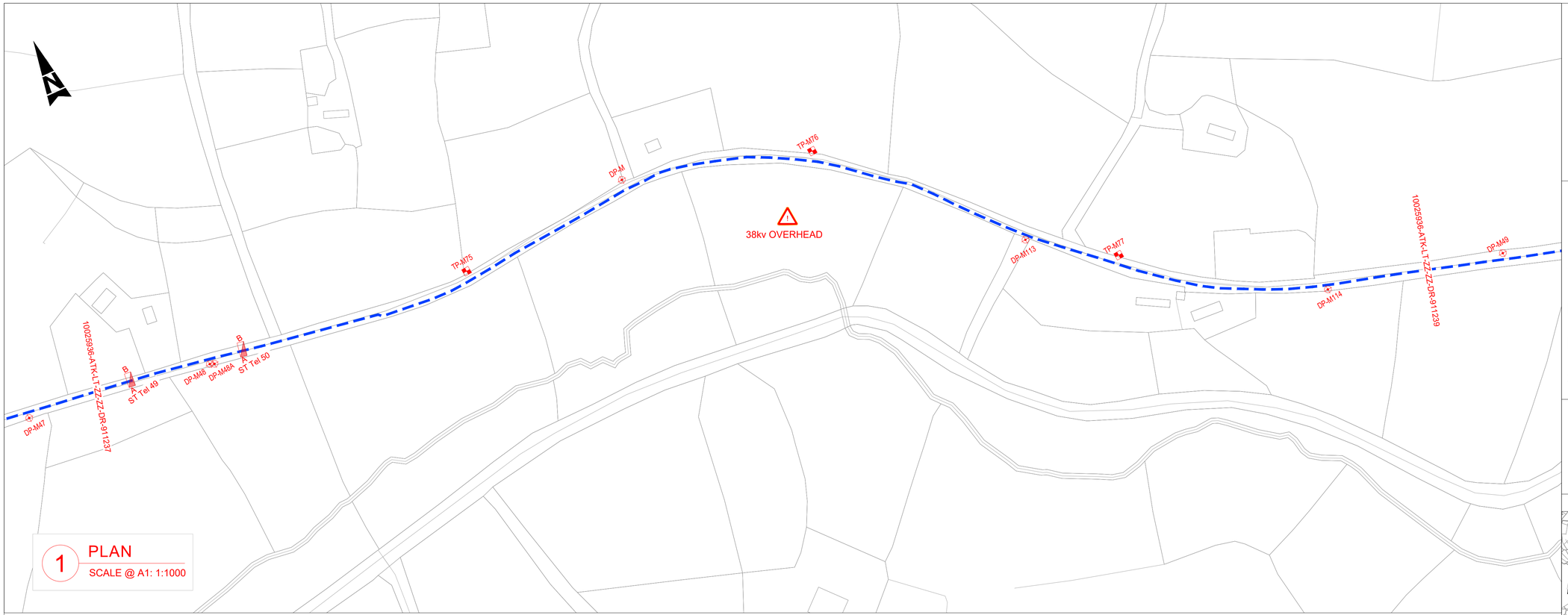
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AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911237
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 100 10 0



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

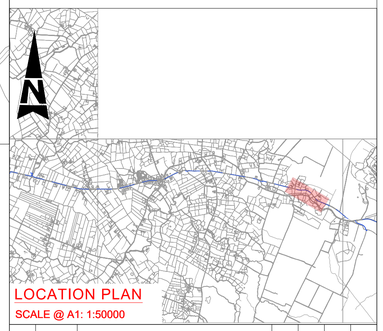
GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. ONLY WRITTEN DIMENSIONS SHALL BE USED. NO DIMENSIONS SHALL BE SCALED FROM THE DRAWINGS
3. ALL LEVELS ARE IN METRES AND ARE TO MALIN HEAD DATUM
4. ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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DUBLIN | CORK | GALWAY | DUNDALK
ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 38 OF 51

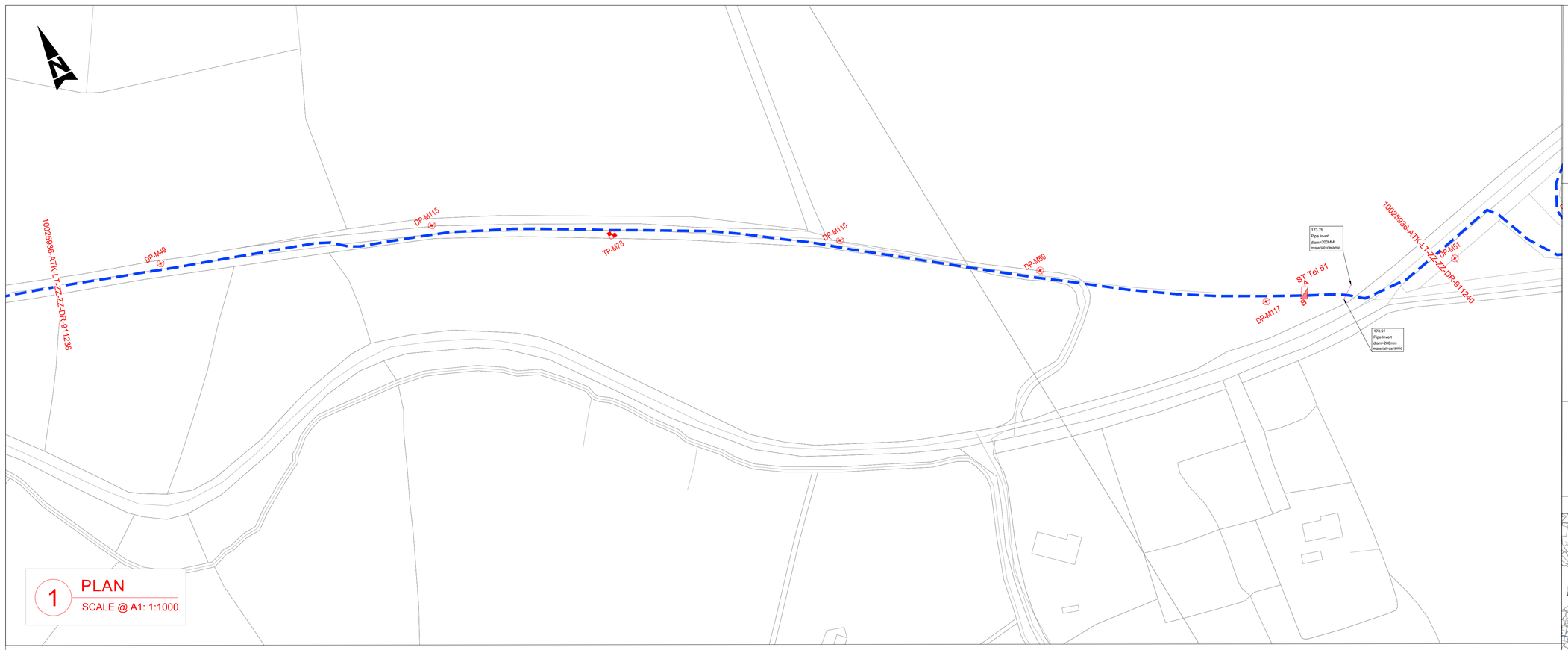
Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911238
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

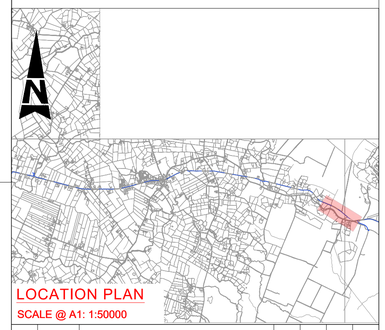
GENERAL NOTES

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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

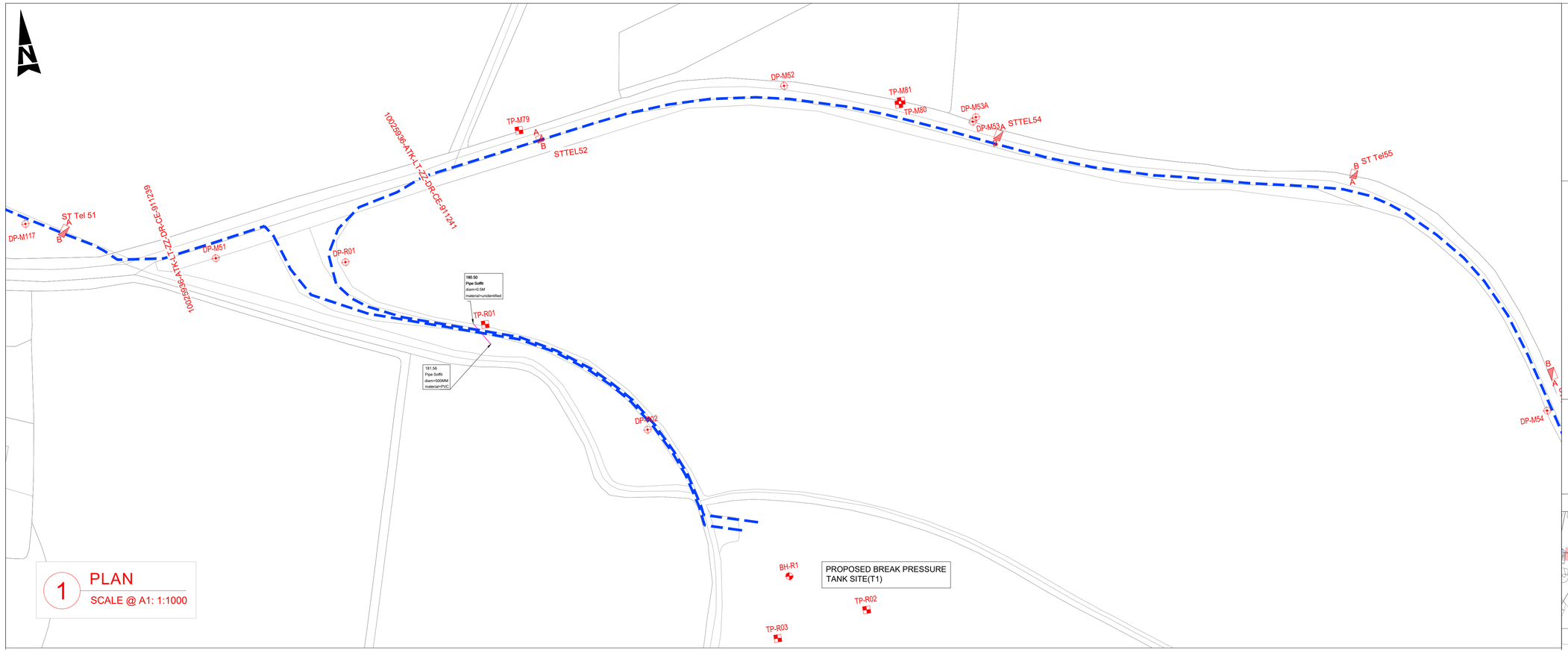
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 39 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size	**Date**	**Date**	**Date**	**Date**
A1	23.03.26	23.03.26	23.03.26	23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911239
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

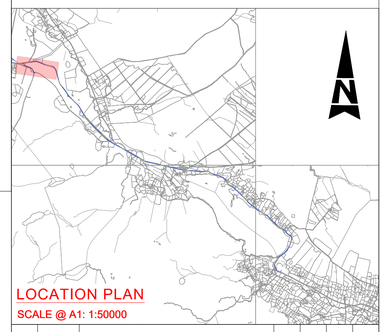
GENERAL NOTES

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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 40 OF 51

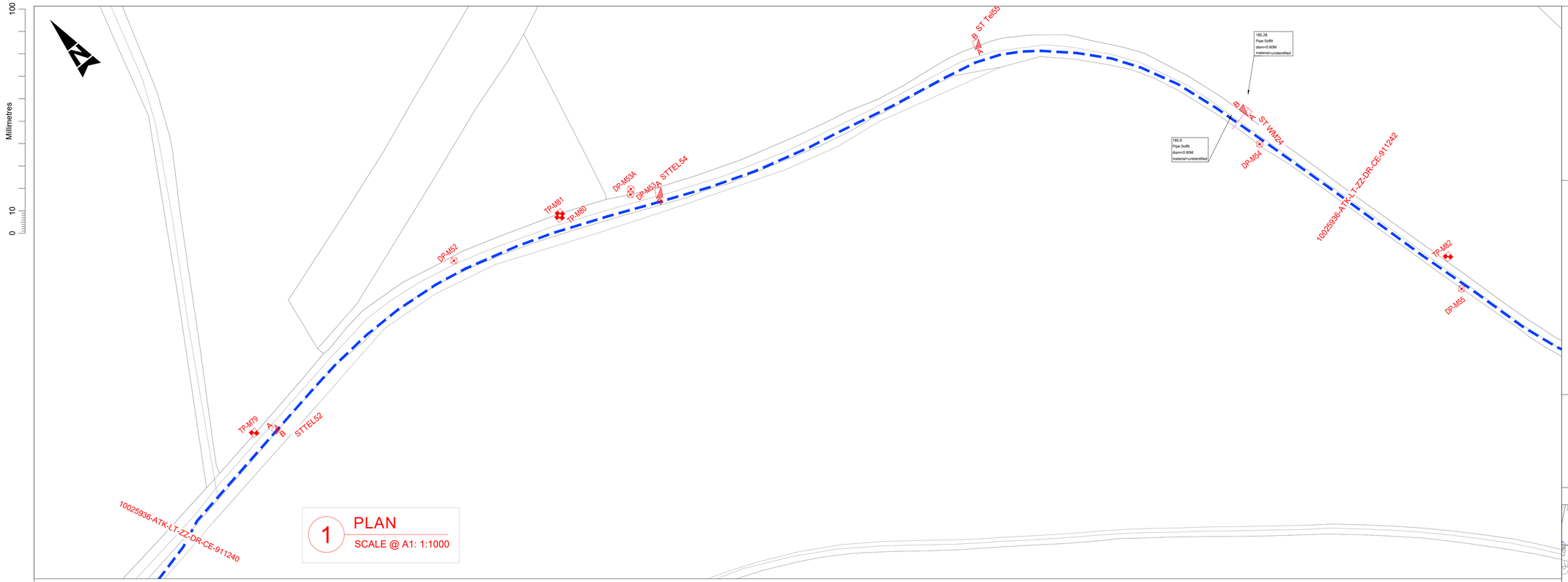
Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911240

Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

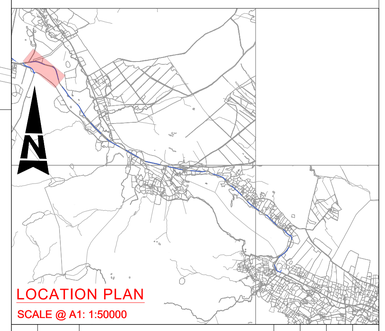
GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 41 OF 51

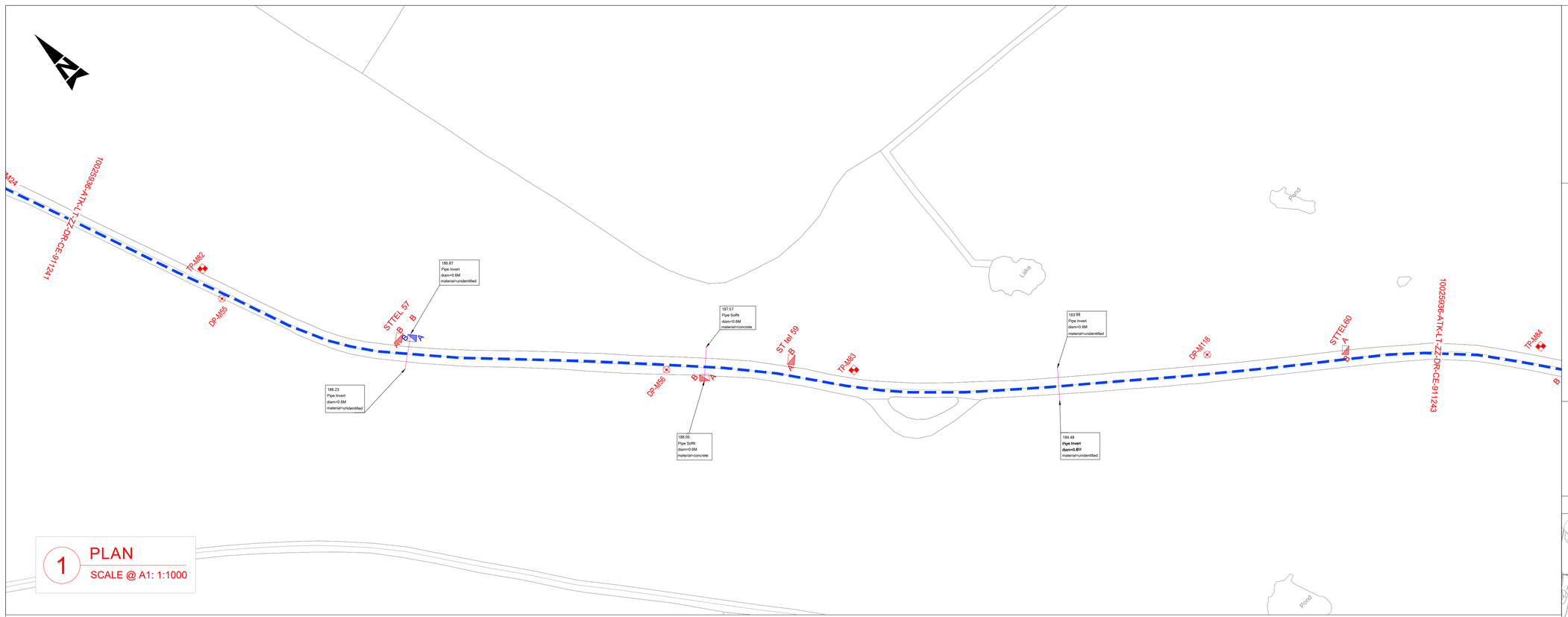
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AS SHOWN	MM	MM	RK	RK
Original Size	Date	Date	Date	Date
A1	23.03.26	23.03.26	23.03.26	23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911241
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

GENERAL NOTES

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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	NR	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

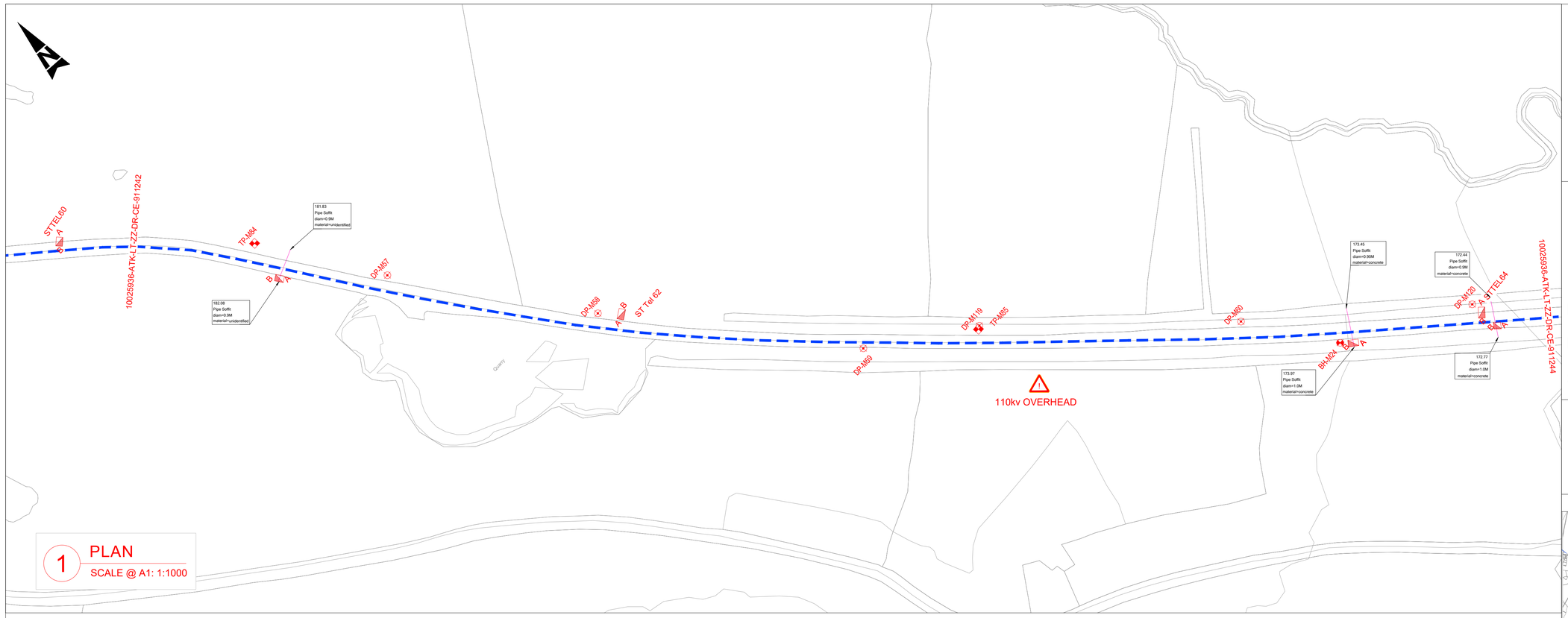
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 42 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911242
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

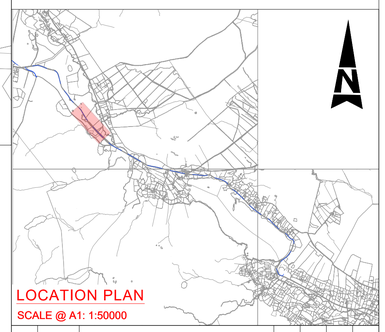
GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

AtkinsRéalis
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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 43 OF 51

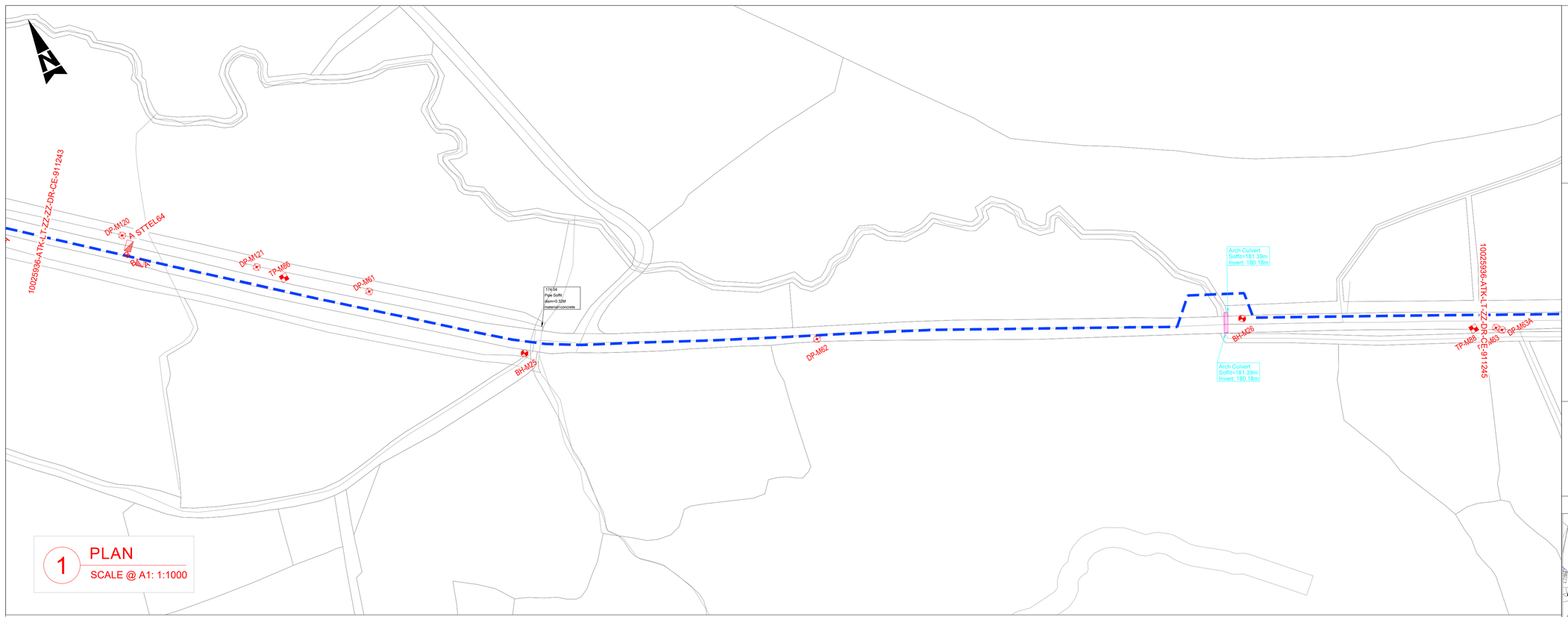
Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size	Date	Date	Date	Date
A1	23.03.26	23.03.26	23.03.26	23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911243
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

OWENMORE RIVER

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

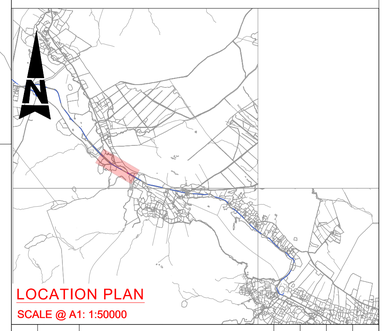
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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

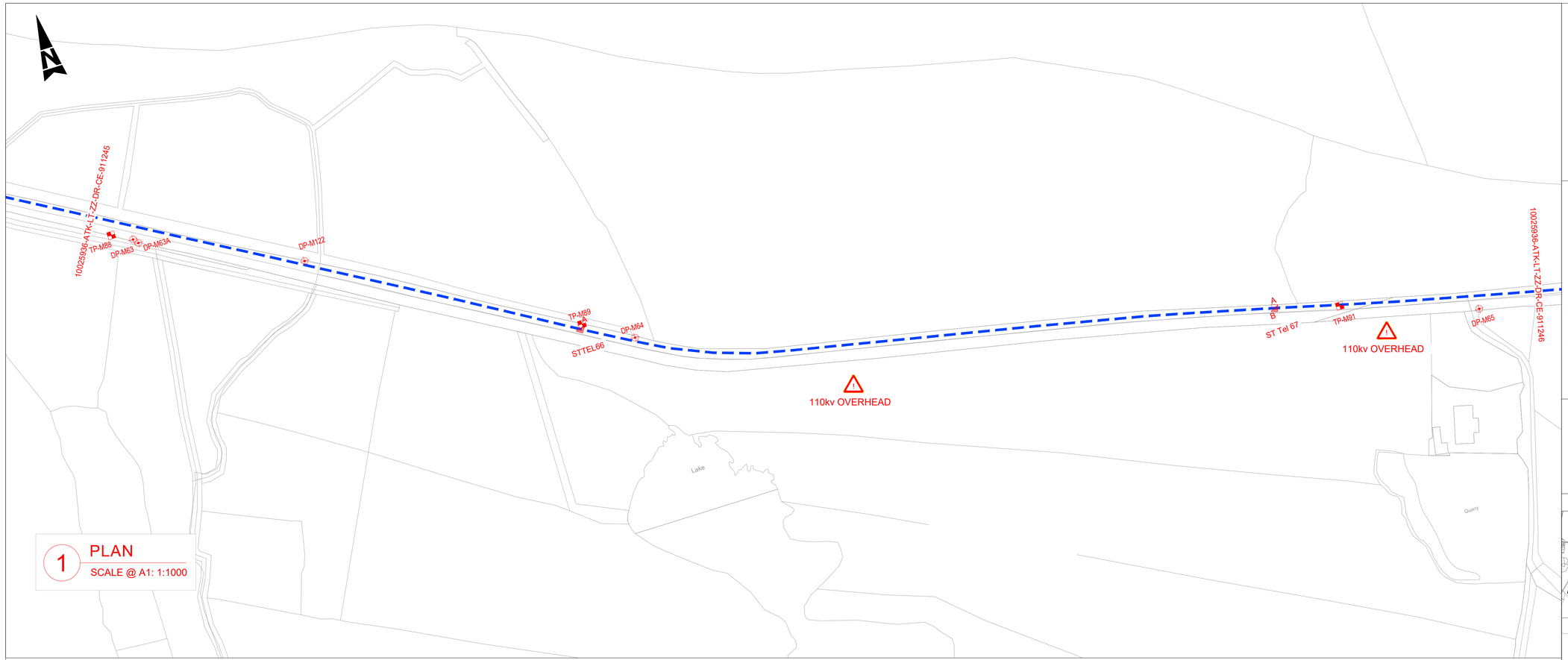
Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 44 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911244
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

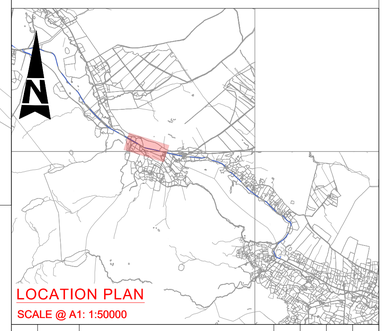
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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

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Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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DUBLIN | CORK | GALWAY | DUNDALK
ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann / Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 45 OF 51

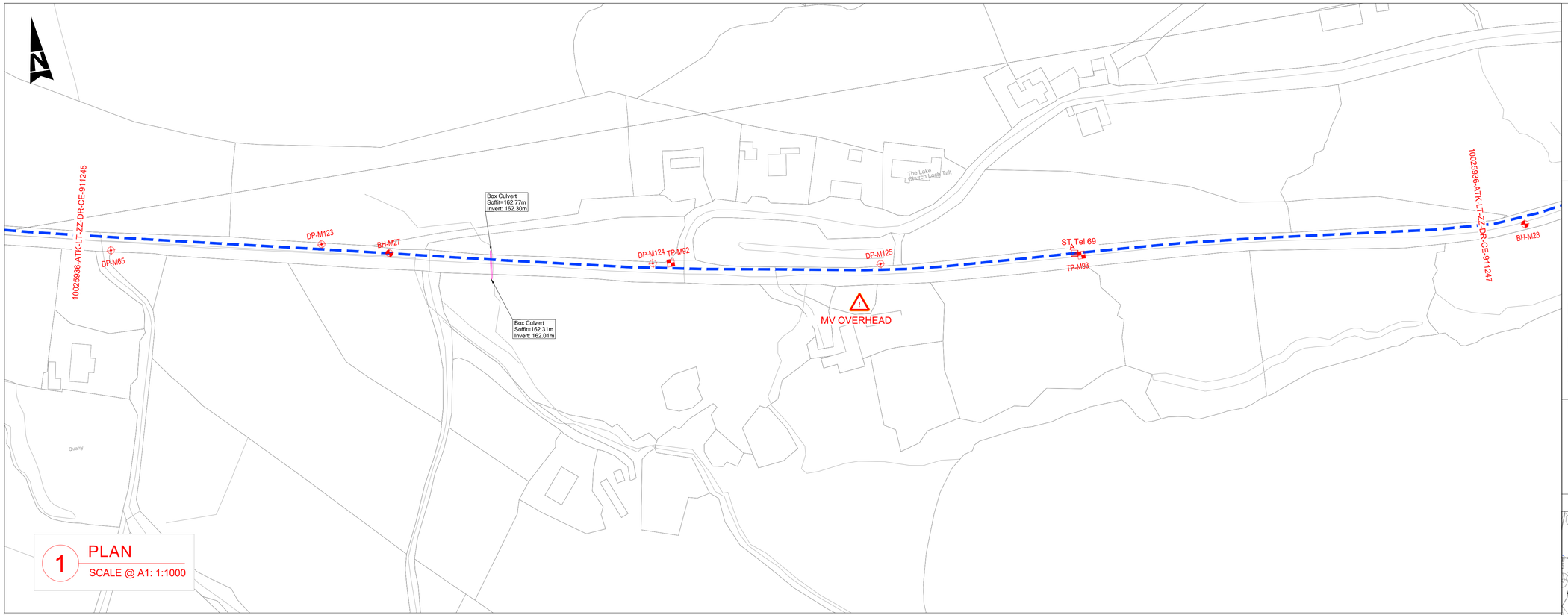
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AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911245
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE
2. ONLY WRITTEN DIMENSIONS SHALL BE USED. NO DIMENSIONS SHALL BE SCALED FROM THE DRAWINGS
3. ALL LEVELS ARE IN METRES AND ARE TO MALIN HEAD DATUM
4. ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 46 OF 51

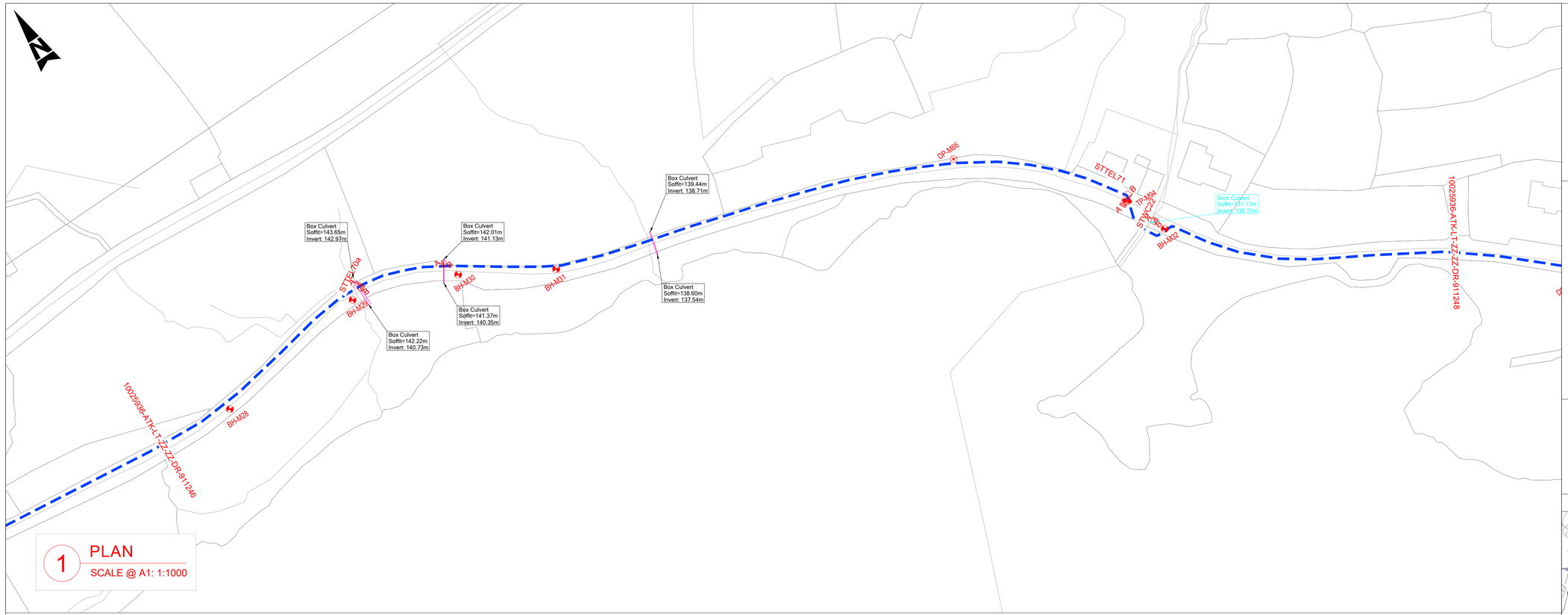
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AS SHOWN	MM	MM	RK	RK
Original Size	Date	Date	Date	Date
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Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911246
Revision: P05

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

EIGNAGH STREAM

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

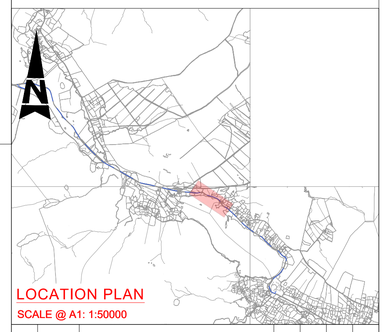
GENERAL NOTES

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4. ALL COORDINATES ARE IN METRES AND ARE TO IRISH TRANSVERSE MERCATOR
5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

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Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 47 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911247
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

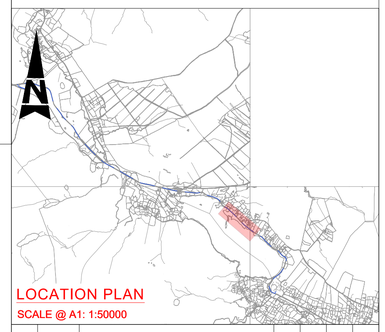
GENERAL NOTES

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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 48 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911248

Revision: P05

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

WATERCOURSE CROSSING

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

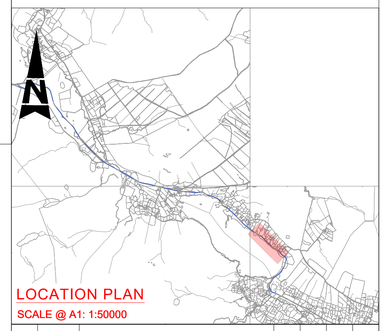
GENERAL NOTES

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5. DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION

Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

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Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	NR	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 49 OF 51

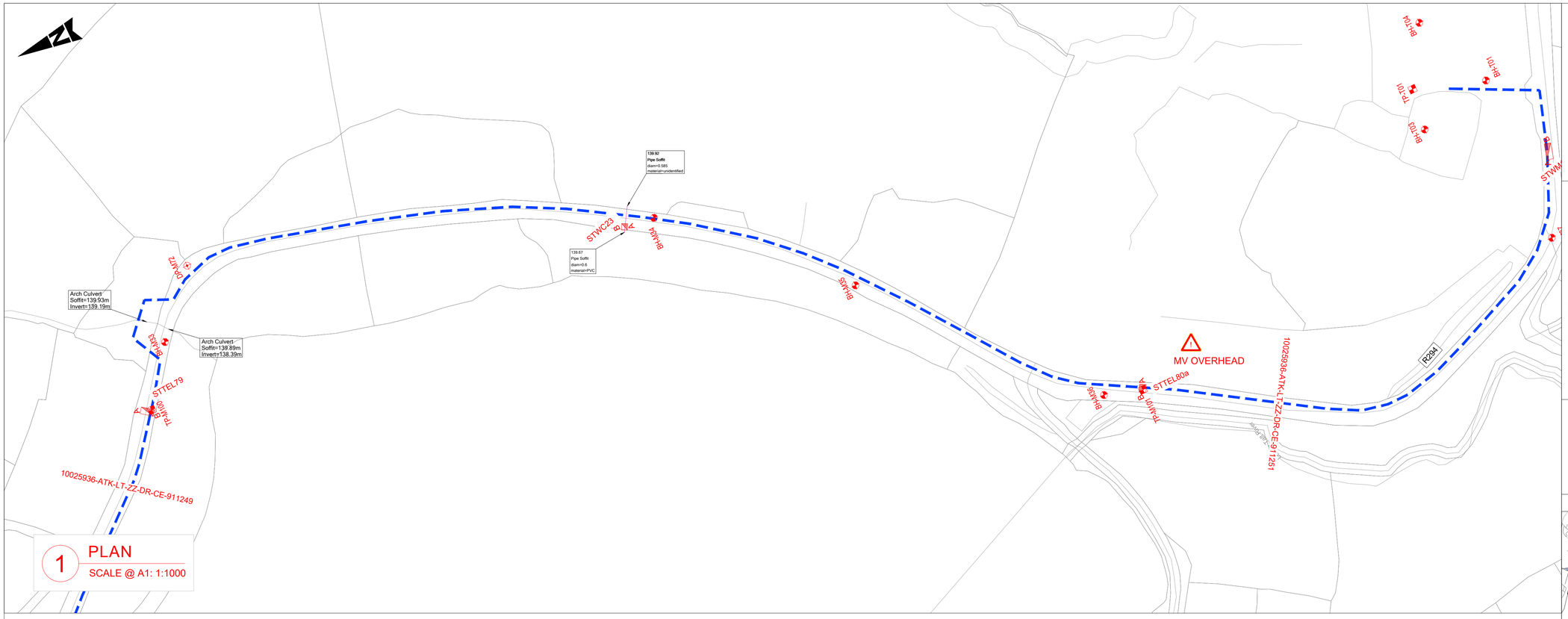
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Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911249
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN

SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION

SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

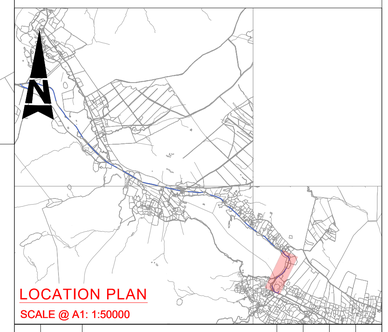
GENERAL NOTES

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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN

SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL

Status: S5

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SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN PLAN & LONGITUDINAL SECTION SHEET 50 OF 51

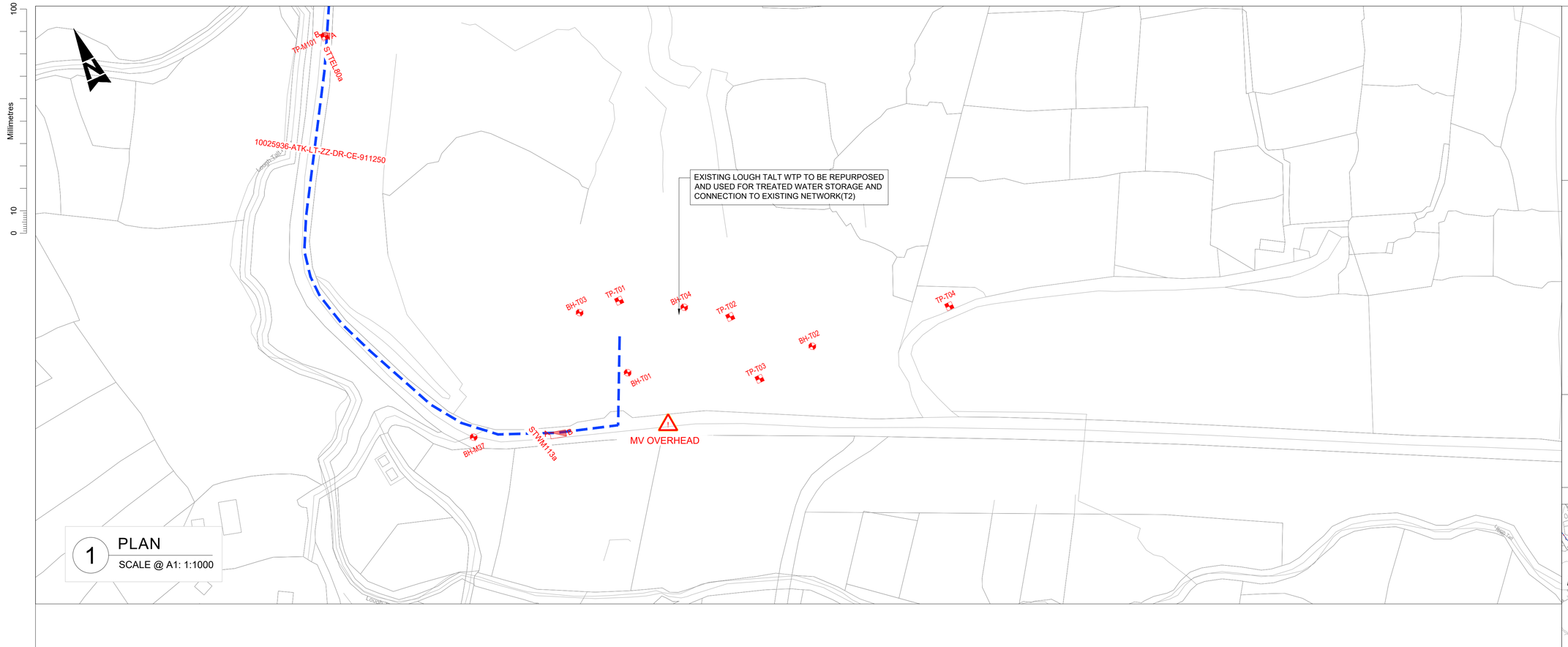
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AS SHOWN	MM	MM	RK	RK
Original Size	Date	Date	Date	Date
A1	23.03.26	23.03.26	23.03.26	23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911250

Revision: P05

Internal Project Number: 100089328

DO NOT SCALE



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

GENERAL NOTES

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Legend

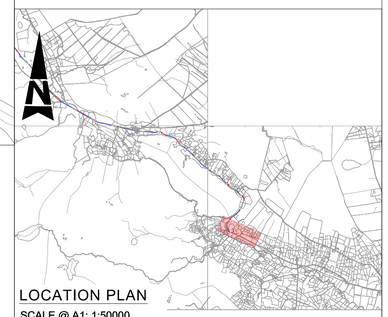
Trial Hole

Borehole Location

Dynamic Probe

Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	19.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
P04	11.07.25	DETAILED DESIGN	SB	MN	AMQ	TM
P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.25	PRELIMINARY	SB	SJB	DB	NR
P01	08.11.24	PRELIMINARY	SB	DB	SJB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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ATKINS HOUSE,150 AIRSIDE BUSINESS PARK,
SWORDS, DUBLIN, K67 K5W4.
Tel : +353 1 810 8000 Email : info.ie@atkinsréalis.com

Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 51 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911251
Revision: P05

Internal Project Number: 100089328

DO NOT SCALE

Millimetres 0 10 100



1 PLAN
SCALE @ A1: 1:1000

2 LONGITUDINAL SECTION
SCALE @ A1: HORIZONTAL : 1:1000, VERTICAL : 1:200

NOTE: EXISTING UTILITIES AS PER GPR AND TOPOGRAPHICAL SURVEYS WHERE AVAILABLE, OTHERWISE AS INDICATED IN THE UTILITY RECORDS SHOWN IN THE PLAN DRAWING.

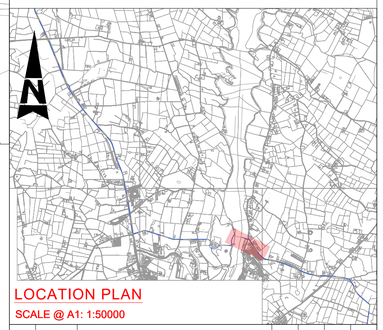
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Legend

- Trial Hole
- Borehole Location
- Dynamic Probe
- Slit Trench

Irish Drilling Limited
Old Galway Road
Loughrea
Co. Galway,
Tel: 091 841274
Email : info@irishdrilling.ie



LOCATION PLAN
SCALE @ A1: 1:50000

Rev.	Date	Description	By	Rev'd	Chk'd	App'd
P06	24.03.26	IDL REPORT	MM	MM	RK	RK
P05	11.12.25	DETAILED DESIGN	SB	AB	AMQ	TM
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P03	31.01.25	PRELIMINARY (REVISED)	PG	MN	AMQ	NR
P02	08.11.24	PRELIMINARY	SB	SJB	DB	NR
P01	12.09.24	FOR INFORMATION	AMQ	SJB	DB	NR

Drawing Suitability: CLIENT APPROVAL
Status: S5

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Client: Uisce Éireann Irish Water

Project Title: BALLINA AND LOUGH TALT WSZ UPGRADE
IDL (AS-BUILT)

Drawing Title: LISGLENNON TO LOUGH TALT TRUNK MAIN
PLAN & LONGITUDINAL SECTION
SHEET 18 OF 51

Scale	Drawn	Checked	Reviewed	Authorised
AS SHOWN	MM	MM	RK	RK
Original Size: A1	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26	Date: 23.03.26

Drawing Number: 10025936-ATK-LT-ZZ-DR-CE-911218
Revision: P05

Internal Project Number: 100089328

Appendix 18
Digital Data

Note: Digital Data included as a separate zipped file.