



TRIAL PIT LOG

TRIAL PIT NUMBER: TP-T1

PROJECT NUMBER: P1505-0
 SITE: Bracklyn WF, Co. Westmeath
 CLIENT: Galetch Energy

DATE STARTED: 11/06/2020
 LOGGED BY: D. Broderick
 CONTRACTOR:

EASTING: 660970
 NORTHING: 759136
 ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00			Ground Surface
		-0.20		0	Peaty Topsoil
		-0.40		1	Grey, firm, slightly sandy SILT
				2	Grey, firm, sandy, very gravelly SILT with cobbles and boulders (non-cohesive). Minor groundwater seepages
				3	
				4	
		-4.20			Total Depth of Trial Pit

REMARKS:

Trial pit undertaken at turbine location

PIT LENGTH:
 PIT BREADTH:
 FINAL DEPTH:
 EXCAVATOR:

LEGEND
 ▽ - Water strike
 D - Disturbed sample
 B - Bulk disturbed sample
 W - Water sample
 V - Vane test
 T - No. of threads
 R - Average length of ribbons
 Dil - Dilatancy recorded

DENSITIES:
 Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard
 Coarse soils: very loose/ loose/ medium dense/ dense/ very dense

DESCRIPTION ORDER:
 Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of soils

DESK STUDY INFO
 Bedrock:
 Outcrops:
 Soils:
 Subsoil:
 Drainage:

PAGE 1 of 1

SCALE



TRIAL PIT LOG

TRIAL PIT NUMBER: TP-T2

PROJECT NUMBER: P1505-0
 SITE: Bracklyn WF, Co. Westmeath
 CLIENT: Galetech Energy

DATE STARTED: 11/06/2020
 LOGGED BY: D. Broderick
 CONTRACTOR:

EASTING: 660927
 NORTHING: 758597
 ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
		-0.20		▨	Peaty Topsoil
		-0.40		x x x x x	Grey, firm, slightly sandy SILT
		-1.30	1	x x x x x	Greyish brown, very firm SILT/CLAY with angular cobbles. Refusal on limestone rock, bedrock presumed
					Total Depth of Trial Pit

REMARKS:

Trial pit location 170m from turbine location. No access due to tillage

PIT LENGTH:
 PIT BREADTH:
 FINAL DEPTH:
 EXCAVATOR:

LEGEND
 ▽ - Water strike
 D - Disturbed sample
 B - Bulk disturbed sample
 W - Water sample
 V - Vane test
 T - No. of threads
 R - Average length of ribbons
 Dil - Dilatancy recorded

DENSITIES:
 Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard
 Coarse soils: very loose/ loose/ medium dense/ dense/ very dense

DESCRIPTION ORDER:
 Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of soils

DESK STUDY INFO
 Bedrock:
 Outcrops:
 Soils:
 Subsoil:
 Drainage:

PAGE 1 of 1

SCALE



TRIAL PIT LOG

TRIAL PIT NUMBER: TP-T3

PROJECT NUMBER: P1505-0

DATE STARTED: 11/06/2020

EASTING: 661027

SITE: Bracklyn WF, Co. Westmeath

LOGGED BY: D. Broderick

NORTHING: 758135

CLIENT: Galetch Energy

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
				Mineral Topsoil	Reddish brown, very firm SILT/CLAY with cobbles
			1		
			2		
		-3.00	3		Total Depth of Trial Pit

REMARKS:

Trial pit location 150m from turbine location. No access due to tillage

PIT LENGTH:
PIT BREADTH:
FINAL DEPTH:
EXCAVATOR:

LEGEND
 ▽ - Water strike
 D - Disturbed sample
 B - Bulk disturbed sample
 W - Water sample
 V - Vane test
 T - No. of threads
 R - Average length of ribbons
 Dil - Dilatancy recorded

DENSITIES:
 Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard
 Coarse soils: very loose/ loose/ medium dense/ dense/ very dense

DESCRIPTION ORDER:
 Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of soils

DESK STUDY INFO
 Bedrock:
 Outcrops:
 Soils:
 Subsoil:
 Drainage:

PAGE 1 of 1

SCALE



TRIAL PIT LOG

TRIAL PIT NUMBER: TP-T4

PROJECT NUMBER: P1505-0

DATE STARTED:

EASTING: 661192

SITE: Bracklyn WF, Co. Westmeath

LOGGED BY: D. Broderick

NORTHING: 757675

CLIENT: Galetch Energy

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
		-0.15		[Cross-hatch pattern]	Mineral Topsoil
			1	[Horizontal dashes]	Orange brown, firm, slightly gravelly SILT/CLAY
		-1.30		[Horizontal dashes]	Orange brown, very firm, slightly sandy, slightly gravelly SILT/CLAY
		-2.30	2	[Horizontal dashes]	
					Total Depth of Trial Pit

REMARKS:

Trial pit location 30m from turbine location. No access due to forestry

PIT LENGTH:
PIT BREADTH:
FINAL DEPTH:
EXCAVATOR:

LEGEND
 ▽ - Water strike
 D - Disturbed sample
 B - Bulk disturbed sample
 W - Water sample
 V - Vane test
 T - No. of threads
 R - Average length of ribbons
 Dil - Dilatancy recorded

DENSITIES:
 Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard
 Coarse soils: very loose/ loose/ medium dense/ dense/ very dense

DESCRIPTION ORDER:
 Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of soils

DESK STUDY INFO
 Bedrock:
 Outcrops:
 Soils:
 Subsoil:
 Drainage:

PAGE 1 of 1

SCALE



TRIAL PIT LOG

TRIAL PIT NUMBER: TP-T5

PROJECT NUMBER: P1505-0
 SITE: Bracklyn WF, Co. Westmeath
 CLIENT: Galetech Energy

DATE STARTED: 11/06/2020
 LOGGED BY: D. Broderick
 CONTRACTOR:

EASTING: 660780
 NORTHING: 757320
 ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
			1	X	Very dry, fibrous PEAT
		-1.40		X	Light grey, very soft (wet) slightly gravelly, sandy SILT (non-cohesive). Moderate groundwater seepages
		-2.60			Total Depth of Trial Pit

REMARKS:

Trial pit undertaken at turbine location

PIT LENGTH:
 PIT BREADTH:
 FINAL DEPTH:
 EXCAVATOR:

LEGEND
 ▽ - Water strike
 D - Disturbed sample
 B - Bulk disturbed sample
 W - Water sample
 V - Vane test
 T - No. of threads
 R - Average length of ribbons
 Dil - Dilatancy recorded

DENSITIES:
 Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard
 Coarse soils: very loose/ loose/ medium dense/ dense/ very dense

DESCRIPTION ORDER:
 Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of soils

DESK STUDY INFO
Bedrock:
Outcrops:
Soils:
Subsoil:
Drainage:

PAGE 1 of 1

SCALE



TRIAL PIT LOG

TRIAL PIT NUMBER: TP-T6

PROJECT NUMBER: P1505-0

DATE STARTED: 11/06/2020

EASTING: 661424

SITE: Bracklyn WF, Co. Westmeath

LOGGED BY: D. Broderick

NORTHING: 758849

CLIENT: Galetech Energy

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
				0	Very dry, fibrous PEAT
		-1.00	1		
				1	Soft (very wet), sandy, gravelly SILT with cobbles (non-cohesive). Moderate groundwater seepages.
				2	
		-3.00	3		
					Total Depth of Trial Pit

REMARKS:

Trial pit undertaken at turbine location

PIT LENGTH:
PIT BREADTH:
FINAL DEPTH:
EXCAVATOR:

LEGEND
 ▽ - Water strike
 D - Disturbed sample
 B - Bulk disturbed sample
 W - Water sample
 V - Vane test
 T - No. of threads
 R - Average length of ribbons
 Dil - Dilatancy recorded

DENSITIES:
 Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard
 Coarse soils: very loose/ loose/ medium dense/ dense/ very dense

DESCRIPTION ORDER:
 Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of soils

DESK STUDY INFO
 Bedrock:
 Outcrops:
 Soils:
 Subsoil:
 Drainage:

PAGE 1 of 1

SCALE



TRIAL PIT LOG

TRIAL PIT NUMBER: TP-T7

PROJECT NUMBER: P1505-0

DATE STARTED: 11/06/2020

EASTING: 661617

SITE: Bracklyn WF, Co. Westmeath

LOGGED BY: D. Broderick

NORTHING: 758418

CLIENT: Galetch Energy

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
			1	Grid pattern	Very dry, fibrous PEAT
		-1.30			
			2	X pattern	Grey, soft, sandy, gravelly SILT with cobbles and boulders. Minor groundwater seepages.
			3		
		-3.50			
					Total Depth of Trial Pit

REMARKS:

Trial pit undertaken at turbine location

PIT LENGTH:
PIT BREADTH:
FINAL DEPTH:
EXCAVATOR:

LEGEND
 ▽ - Water strike
 D - Disturbed sample
 B - Bulk disturbed sample
 W - Water sample
 V - Vane test
 T - No. of threads
 R - Average length of ribbons
 Dil - Dilatancy recorded

DENSITIES:
 Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard
 Coarse soils: very loose/ loose/ medium dense/ dense/ very dense
DESCRIPTION ORDER:
 Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of soils

DESK STUDY INFO
Bedrock:
Outcrops:
Soils:
Subsoil:
Drainage:

PAGE 1 of 1

SCALE



TRIAL PIT LOG

TRIAL PIT NUMBER: TP-T10

PROJECT NUMBER: P1505-0

DATE STARTED: 11/06/2020

EASTING: 662345

SITE: Bracklyn WF, Co. Westmeath

LOGGED BY: D. Broderick

NORTHING: 758541

CLIENT: Galetch Energy

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
			1		Amorphous PEAT
			2		
		-3.20	3		Very soft, yellow lacustrine CLAY
		-3.80	4		Grey, sandy, GRAVEL (fine). High volume groundwater seepages
			4		Total Depth of Trial Pit

REMARKS:

Hole filled rapidly to 3.7mblg with groundwater. Trial pit location 30m from turbine location. No access due to forestry

PIT LENGTH:
PIT BREADTH:
FINAL DEPTH:
EXCAVATOR:

LEGEND
 ▽ - Water strike
 D - Disturbed sample
 B - Bulk disturbed sample
 W - Water sample
 V - Vane test
 T - No. of threads
 R - Average length of ribbons
 Dil - Dilatancy recorded

DENSITIES:
Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard
Coarse soils: very loose/ loose/ medium dense/ dense/ very dense

DESCRIPTION ORDER:
 Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of soils

DESK STUDY INFO
Bedrock:
Outcrops:
Soils:
Subsoil:
Drainage:

PAGE 1 of 1

SCALE



TRIAL PIT LOG

TRIAL PIT NUMBER: TP-T11

PROJECT NUMBER: P1505-0

DATE STARTED: 11/06/2020

EASTING: 662153

SITE: Bracklyn WF, Co. Westmeath

LOGGED BY: D. Broderick

NORTHING: 758072

CLIENT: Galetech Energy

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
		-0.15		[Cross-hatch pattern]	Mineral Topsoil
			1	[Horizontal dashes]	Light brown, very firm SILT/CLAY with cobbles and boulders.
			2	[Horizontal dashes]	
		-2.60			Total Depth of Trial Pit

REMARKS:

Trial pit undertaken at turbine location

PIT LENGTH:
PIT BREADTH:
FINAL DEPTH:
EXCAVATOR:

LEGEND
 ▽ - Water strike
 D - Disturbed sample
 B - Bulk disturbed sample
 W - Water sample
 V - Vane test
 T - No. of threads
 R - Average length of ribbons
 Dil - Dilatancy recorded

DENSITIES:
 Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard
 Coarse soils: very loose/ loose/ medium dense/ dense/ very dense

DESCRIPTION ORDER:
 Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of soils

DESK STUDY INFO
 Bedrock:
 Outcrops:
 Soils:
 Subsoil:
 Drainage:

PAGE 1 of 1

SCALE



TRIAL PIT LOG

TRIAL PIT NUMBER: TP-MM

PROJECT NUMBER: P1505-0

DATE STARTED: 11/06/2020

EASTING: 660630

SITE: Bracklyn WF, Co. Westmeath

LOGGED BY: D. Broderick

NORTHING: 757846

CLIENT: Galetch Energy

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
					Mineral Topsoil
					Reddish brown, very firm SILT/CLAY with cobbles
		-3.00	3		Total Depth of Trial Pit

REMARKS:

Trial pit undertaken at met mast location

PIT LENGTH:
PIT BREADTH:
FINAL DEPTH:
EXCAVATOR:

LEGEND
 ▽ - Water strike
 D - Disturbed sample
 B - Bulk disturbed sample
 W - Water sample
 V - Vane test
 T - No. of threads
 R - Average length of ribbons
 Dil - Dilatancy recorded

DENSITIES:
 Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard
 Coarse soils: very loose/ loose/ medium dense/ dense/ very dense

DESCRIPTION ORDER:
 Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of soils

DESK STUDY INFO
 Bedrock:
 Outcrops:
 Soils:
 Subsoil:
 Drainage:

PAGE 1 of 1

SCALE