

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

**CLIENT:** Galetech Energy

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

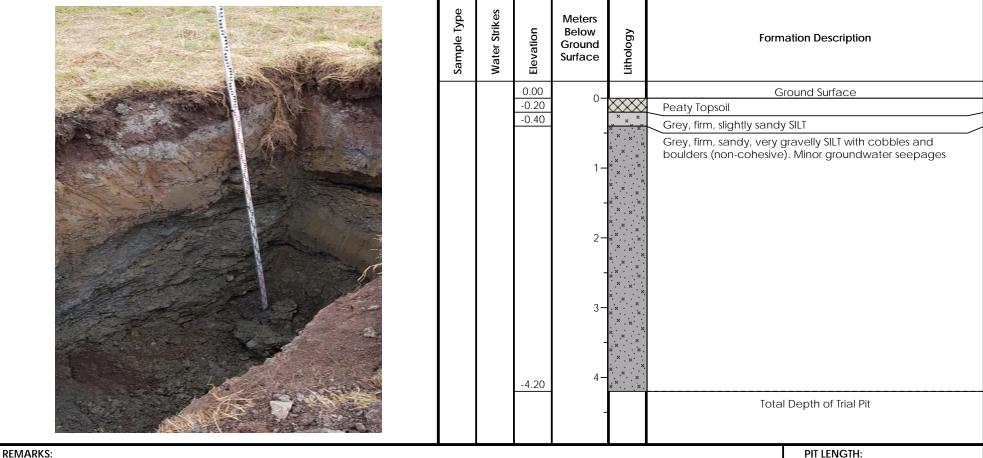
CONTRACTOR:

**EASTING**: 660970

TRIAL PIT NUMBER: TP-T1

**NORTHING**: 759136

TOR: ELEVATION:



#### PIT BREADTH: Trial pit undertaken at turbine location FINAL DEPTH: **EXCAVATOR:** LEGEND DENSITIES: **DESK STUDY INFO** Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard Coarse soils: very loose/ loose/ medium dense/ dense/ very dense ∇ - Water strike Bedrock: D - Disturbed sample PAGE 1 of 1 B - Bulk disturbed sample Outcrops: W - Water sample DESCRIPTION ORDER: Soils: Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of V - Vane test T - No. of threads Subsoil: **SCALE** R - Average length of ribbons Drainage: Dil - Dilatancy recorded



**DATE STARTED:** 11/06/2020

**EASTING**: 660927 **NORTHING**: 758597

TRIAL PIT NUMBER: TP-T2

SITE: Bracklyn WF, Co. Westmeath

PROJECT NUMBER: P1505-0

**CLIENT:** Galetech Energy

LOGGED BY: D. Broderick CONTRACTOR:

**ELEVATION:** 

	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
a design			0.00	0		Ground Surface
			-0.20	0-		Peaty Topsoil
			-0.40		* * * * * * * * *	Grey, firm, slightly sandy SILT
			-1.30	1		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

#### 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

## **DESK STUDY INFO** Bedrock:

Outcrops: Soils:

Subsoil: Drainage: FINAL DEPTH: EXCAVATOR:

PIT LENGTH: PIT BREADTH:

PAGE 1 of 1

**SCALE** 



**DATE STARTED:** 11/06/2020

**EASTING**: 661027

TRIAL PIT NUMBER: TP-T3

SITE: Bracklyn WF, Co. Westmeath

LOGGED BY: D. Broderick

**NORTHING**: 758135

**ELEVATION:** 

**CLIENT:** Galetech Energy

PROJECT NUMBER: P1505-0

CONTRACTOR:

Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0-		Ground Surface
			O	$\stackrel{\times\!\times\!\times\!\times}{=}$	Mineral Topsoil
		-3.00	- 1- - 2-	x x x x x x x x x x x x x x x x x x x	Reddish brown, very firm SILT/CLAY with cobbles
			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

**DESK STUDY INFO** Bedrock:

Outcrops: Soils:

Subsoil: Drainage: PAGE 1 of 1

**SCALE** 



DATE STARTED:

**EASTING**: 661192

SITE: Bracklyn WF, Co. Westmeath

LOGGED BY: D. Broderick

**NORTHING**: 757675

TRIAL PIT NUMBER: TP-T4

**CLIENT:** Galetech Energy

PROJECT NUMBER: P1505-0

CONTRACTOR:

**ELEVATION:** 

	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
			0.00	0-		Ground Surface
			-0.15	O	>>>>	Mineral Topsoil
			-1.30	1-		Orange brown, firm, slightly gravelly SILT/CLAY
			-2.30	2-	*	Orange brown, very firm, slightly sandy, slightly gravelly SILT/CLAY  Total Depth of Trial Pit
REMARKS:			-			PIT LENGTH:

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

#### 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

**DESK STUDY INFO** Bedrock:

Outcrops: Soils:

Subsoil: Drainage: PAGE 1 of 1

PIT BREADTH:

FINAL DEPTH: **EXCAVATOR:** 

**SCALE** 



**DATE STARTED:** 11/06/2020

**EASTING**: 660780 **NORTHING**: 757320

TRIAL PIT NUMBER: TP-T5

SITE: Bracklyn WF, Co. Westmeath

LOGGED BY: D. Broderick

CONTRACTOR:

**ELEVATION:** 

**CLIENT:** Galetech Energy

PROJECT NUMBER: P1505-0

	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
			0.00	0		Ground Surface
			-1.40	0		Very dry, fibrous PEAT
			-2.60	2-		Light grey, very soft (wet) slightly gravelly, sandy SILT (non- cohesive). Moderate groundwater seepages
						Total Depth of Trial Pit
REMARKS:						PIT LENGTH:

# LEGEND

- ∇ Water strike
- D Disturbed sample

Trial pit undertaken at turbine location

- 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

## **DESK STUDY INFO** Bedrock:

Outcrops: Soils:

Subsoil: Drainage: PAGE 1 of 1

PIT BREADTH:

FINAL DEPTH: EXCAVATOR:

**SCALE** 



**DATE STARTED:** 11/06/2020

**EASTING**: 661424 **NORTHING**: 758849

TRIAL PIT NUMBER: TP-T6

SITE: Bracklyn WF, Co. Westmeath

LOGGED BY: D. Broderick

CONTRACTOR:

**ELEVATION:** 

**CLIENT:** Galetech Energy

PROJECT NUMBER: P1505-0

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

LEGEND ∇ - Water strike

**REMARKS:** 

D - Disturbed sample

B - Bulk disturbed sample

Trial pit undertaken at turbine location

W - Water sample

V - Vane test

R - Average length of ribbons Dil - Dilatancy recorded

T - No. of threads

#### 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

# **DESK STUDY INFO**

Outcrops:

Subsoil:

Bedrock:

Soils:

Drainage:

PAGE 1 of 1

PIT LENGTH: PIT BREADTH:

FINAL DEPTH: EXCAVATOR:

**SCALE** 



PROJECT NUMBER: P1505-0

SITE: Bracklyn WF, Co. Westmeath

**CLIENT:** Galetech Energy

**DATE STARTED:** 11/06/2020

LOGGED BY: D. Broderick

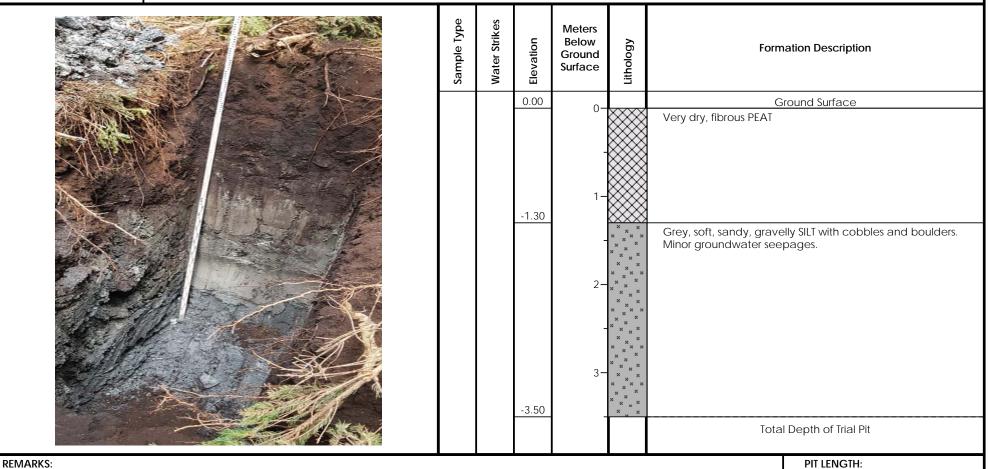
CONTRACTOR:

**EASTING**: 661617

**NORTHING:** 758418

TRIAL PIT NUMBER: TP-T7

**ELEVATION:** 



#### Trial pit undertaken at turbine location LEGEND DENSITIES: **DESK STUDY INFO** Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard Coarse soils: very loose/ loose/ medium dense/ dense/ very dense ∇ - 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

DESCRIPTION ORDER:

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

Bedrock:

Outcrops: Soils:

Subsoil: Drainage: PAGE 1 of 1

PIT BREADTH:

FINAL DEPTH: **EXCAVATOR:** 

**SCALE** 



**REMARKS:** 

TRIAL PIT LOG

**DATE STARTED**: 11/06/2020

LOGGED BY: D. Broderick

**EASTING**: 662345 **NORTHING**: 758541

PIT LENGTH:

TRIAL PIT NUMBER: TP-T10

CONTRACTOR:

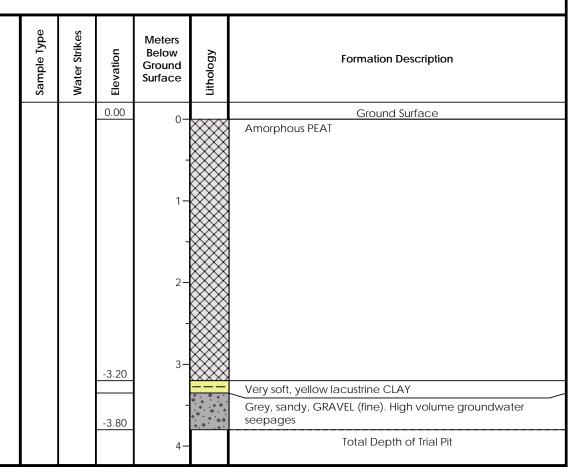
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PROJECT NUMBER: P1505-0

**CLIENT:** Galetech Energy

SITE: Bracklyn WF, Co. Westmeath



#### PIT BREADTH: Hole filled rapidly to 3.7mblg with groundwater. Trial pit location 30m from turbine location. No access due to forestry FINAL DEPTH: EXCAVATOR: LEGEND DENSITIES: **DESK STUDY INFO** ∇ - Water strike Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard Bedrock: Coarse soils: very loose/ loose/ medium dense/ dense/ very dense D - Disturbed sample PAGE 1 of 1 B - Bulk disturbed sample Outcrops: DESCRIPTION ORDER: W - Water sample Soils: Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of V - Vane test Subsoil: T - No. of threads **SCALE** R - Average length of ribbons Drainage: Dil - Dilatancy recorded



PROJECT NUMBER: P1505-0

SITE: Bracklyn WF, Co. Westmeath

**CLIENT:** Galetech Energy

**DATE STARTED:** 11/06/2020

LOGGED BY: D. Broderick

CONTRACTOR:

**EASTING**: 662153

**NORTHING**: 758072

TRIAL PIT NUMBER: TP-T11

**ELEVATION:** 

	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
			0.00	0-		Ground Surface
			-0.15	0-	$>\!\!>\!\!>$	Mineral Topsoil
			-2.60	- 1- 2-		Light brown, very firm SILT/CLAY with cobbles and boulders.  Total Depth of Trial Pit
REMARKS:			l			PIT LENGTH:

# LEGEND

- ∇ Water strike
- D Disturbed sample
- B Bulk disturbed sample

Trial pit undertaken at turbine location

- 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

**DESK STUDY INFO** Bedrock:

Outcrops:

Subsoil:

Soils:

Drainage:

PAGE 1 of 1

PIT BREADTH:

FINAL DEPTH: EXCAVATOR:

**SCALE** 



**DATE STARTED**: 11/06/2020

LOGGED BY: D. Broderick

**EASTING**: 660630 **NORTHING**: 757846

TRIAL PIT NUMBER: TP-MM

CONTRACTOR:

ELEVATION:

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PROJECT NUMBER: P1505-0

**CLIENT:** Galetech Energy

SITE: Bracklyn WF, Co. Westmeath

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

#### **REMARKS:** PIT LENGTH: PIT BREADTH: Trial pit undertaken at met mast location FINAL DEPTH: EXCAVATOR: LEGEND DENSITIES: **DESK STUDY INFO** Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard Coarse soils: very loose/ loose/ medium dense/ dense/ very dense ∇ - Water strike Bedrock: D - Disturbed sample PAGE 1 of 1 B - Bulk disturbed sample Outcrops: W - Water sample DESCRIPTION ORDER: Soils: Density/bedding/ structure/ colour/ MINOR component/ SECONDARY component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of V - Vane test T - No. of threads Subsoil: **SCALE** R - Average length of ribbons Drainage: Dil - Dilatancy recorded