

**DATE STARTED**: 25/08/2019

**EASTING**: 255429

SITE: Drumlins Park, Co. Monaghan

LOGGED BY: D. Broderick

**NORTHING:** 319885

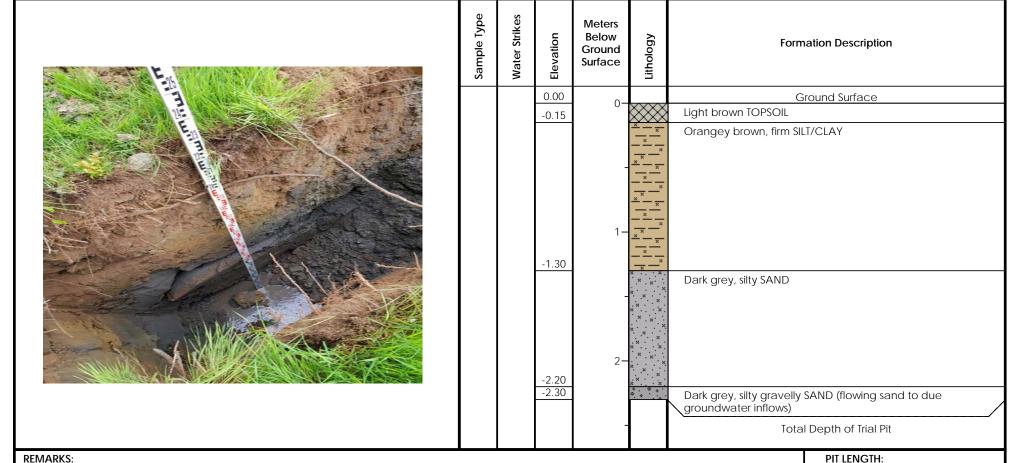
TRIAL PIT NUMBER: TP\_Substation

**CLIENT:** Drumlins Park Ltd

PROJECT NUMBER: P1460-0

CONTRACTOR:

**ELEVATION:** 



## 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

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** 



PROJECT NUMBER: P1460-0

SITE: Drumlins Park, Co. Monaghan

**CLIENT:** Drumlins Park Ltd

**DATE STARTED**: 25/08/2019

LOGGED BY: D. Broderick

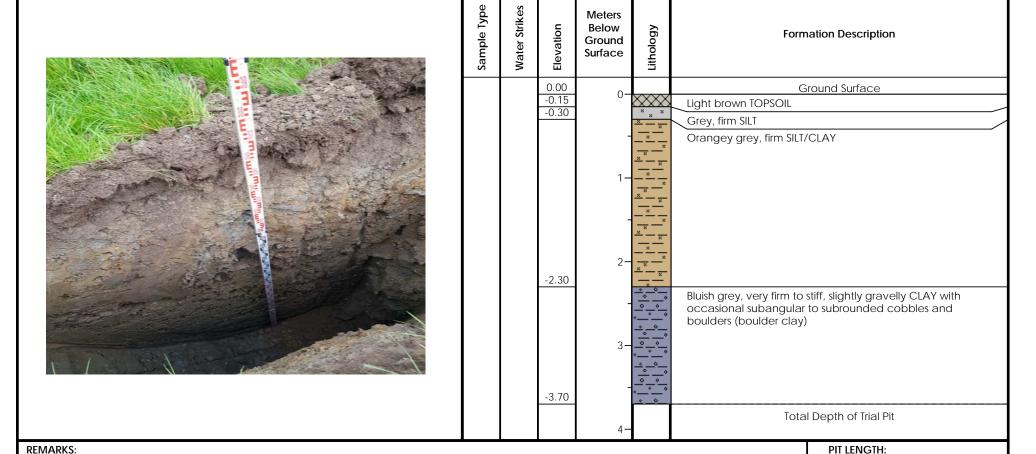
CONTRACTOR:

**EASTING**: 253801

**NORTHING: 321340** 

TRIAL PIT NUMBER: TP\_T1

**ELEVATION:** 



#### 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

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** 



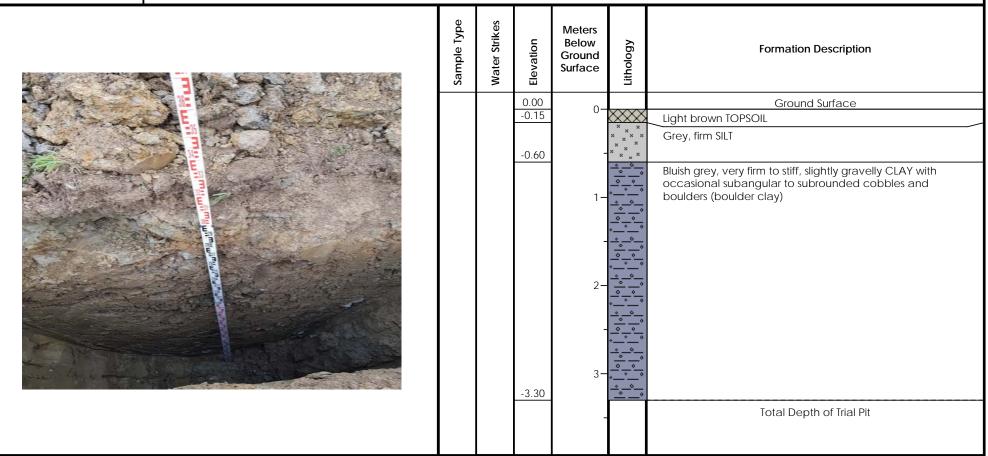
PROJECT NUMBER: P1460-0 SITE: Drumlins Park, Co. Monaghan

**CLIENT:** Drumlins Park Ltd

**DATE STARTED**: 25/08/2019

LOGGED BY: D. Broderick

CONTRACTOR: **ELEVATION:** 



# LEGEND

∇ - Water strike

**REMARKS:** 

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

#### 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:

Drainage:

# Bedrock:

Soils:

Subsoil:

PAGE 1 of 1

PIT LENGTH: PIT BREADTH: FINAL DEPTH: **EXCAVATOR:** 

TRIAL PIT NUMBER: TP\_T2

**EASTING**: 253801

**NORTHING: 320769** 

**SCALE** 



DATE STARTED: 25/08/2019 LOGGED BY: D. Broderick **EASTING:** 253281 **NORTHING:** 320345

TRIAL PIT NUMBER: TP\_T3

SITE: Drumlins Park, Co. Monaghan

PROJECT NUMBER: P1460-0

**CLIENT:** Drumlins Park Ltd

CONTRACTOR:

**ELEVATION:** 

Total Depth of Trial Pit

Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0-	· · · · ·	Ground Surface
		-0.40			Light brown TOPSOIL
		-0.80	-		Greyish brown, very firm, gravelly SILT/CLAY
		5.55	1- - 2-		Bluish grey, very firm to stiff, slightly gravelly CLAY with occasional subangular to subrounded cobbles and boulders (boulder clay)
		2 00	- 3-		

REMARKS:			PIT LENGTH:
			PIT BREADTH:
			FINAL DEPTH:
			EXCAVATOR:
LEGEND	DENSITIES:	DESK STUDY INFO	
∇ - Water strike	Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard		
D - Disturbed sample	Coarse soils: very loose/ loose/ medium dense/ dense/ very dense	Bedrock:	PAGE 1 of 1
B - Bulk disturbed sample		Outcrops:	PAGE 1011
W - Water sample	DESCRIPTION ORDER:	· · · · · · · · · · · · · · · · · · ·	
V - Vane test	Density/bedding/ structure/ colour/ MINOR component/ SECONDARY	Soils:	
T - No. of threads	component/grain shape/PRINCIPAL SOIL TYPE/other descriptions of	Subsoil:	
R - Average length of ribbons	soils	Drainage:	SCALE
Dil - Dilatancy recorded		Dialilage.	



PROJECT NUMBER: P1460-0

SITE: Drumlins Park, Co. Monaghan

**CLIENT:** Drumlins Park Ltd

**DATE STARTED**: 25/08/2019

LOGGED BY: D. Broderick

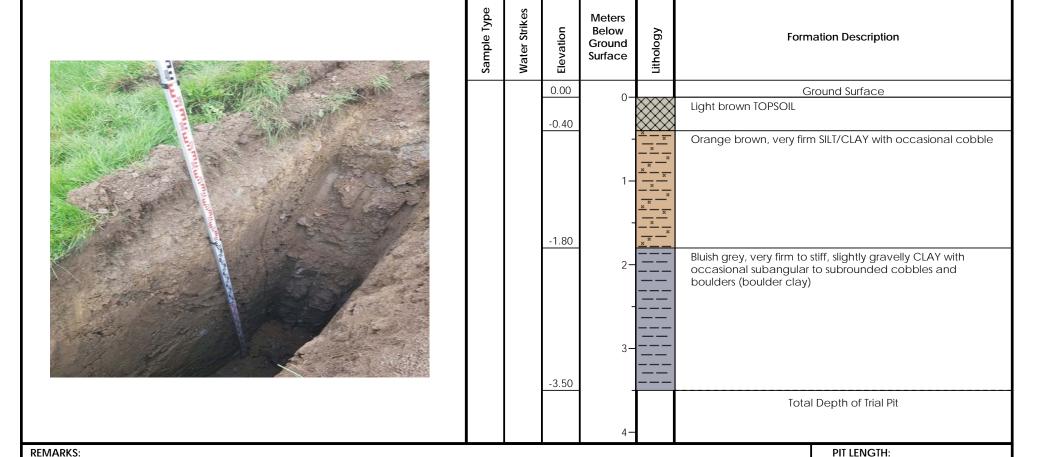
CONTRACTOR:

**EASTING**: 253654

**NORTHING: 320161** 

TRIAL PIT NUMBER: TP\_T4

**ELEVATION:** 



#### 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

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** 



PROJECT NUMBER: P1460-0 SITE: Drumlins Park, Co. Monaghan

**CLIENT:** Drumlins Park Ltd

**DATE STARTED**: 25/08/2019

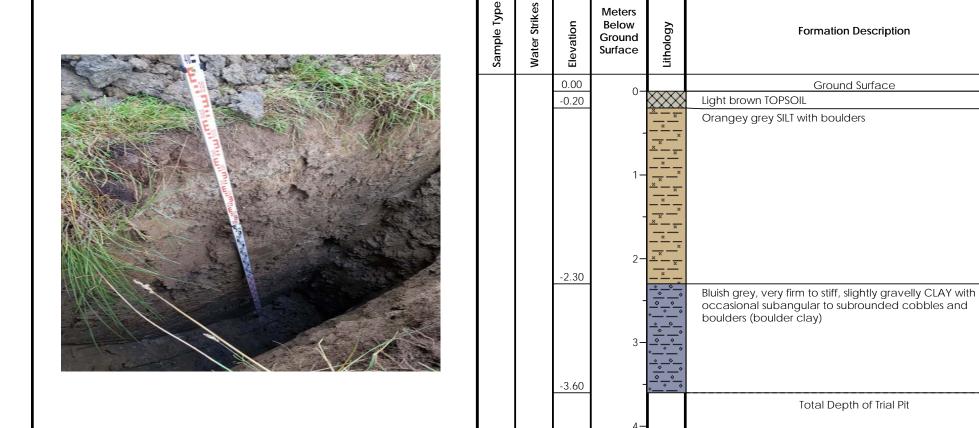
LOGGED BY: D. Broderick

**EASTING**: 254229

**NORTHING: 321136** 

TRIAL PIT NUMBER: TP\_T5

CONTRACTOR: **ELEVATION:** 



# **REMARKS:**

## 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

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:

Drainage:

Outcrops: Soils:

Subsoil:

PAGE 1 of 1

PIT LENGTH: PIT BREADTH: FINAL DEPTH: **EXCAVATOR:** 

**SCALE** 



PROJECT NUMBER: P1460-0

HYDRO-ENVIRONMENTAL SERVICES 22 Lower Main Street Dungarvan Co. Waterford Tel: 058-44122 Fax: 058-44244 Email: info@hydroenvironmental.ie

**CLIENT:** Drumlins Park Ltd

SITE: Drumlins Park, Co. Monaghan

**DATE STARTED**: 25/08/2019

LOGGED BY: D. Broderick

CONTRACTOR:

ELEVATION:

Total Depth of Trial Pit

TRIAL PIT NUMBER: TP\_T6

**EASTING**: 254455

**NORTHING**: 320609

Sample Type Water Strikes Meters Lithology Elevation Below **Formation Description** Ground Surface 0.00 Ground Surface Light brown TOPSOIL -0.40 Orangey brown, firm SILT/CLAY -1.00 Bluish grey, very firm to stiff, slightly gravelly CLAY with occasional subangular to subrounded cobbles and boulders (boulder clay)

REMARKS:			PIT LENGTH:
			PIT BREADTH:
			FINAL DEPTH:
			EXCAVATOR:
	DENSITIES: Fine soils: very soft/ soft/ firm/ stiff/ very stiff/ hard	DESK STUDY INFO	
D - Disturbed sample	Coarse soils: very loose/ loose/ medium dense/ dense/ very dense	Bedrock:	PAGE 1 of 1
B - Bulk disturbed sample W - Water sample	DESCRIPTION ORDER:	Outcrops:	PAGE 1011
V - Vane test	Density/bedding/ structure/ colour/ MINOR component/ SECONDARY		
	component/ grain shape/ PRINCIPAL SOIL TYPE/ other descriptions of		SCALE
R - Average length of ribbons Dil - Dilatancy recorded	soils	Drainage:	JOALL

-3.70



PROJECT NUMBER: P1460-0 SITE: Drumlins Park, Co. Monaghan

**CLIENT:** Galatech Energy

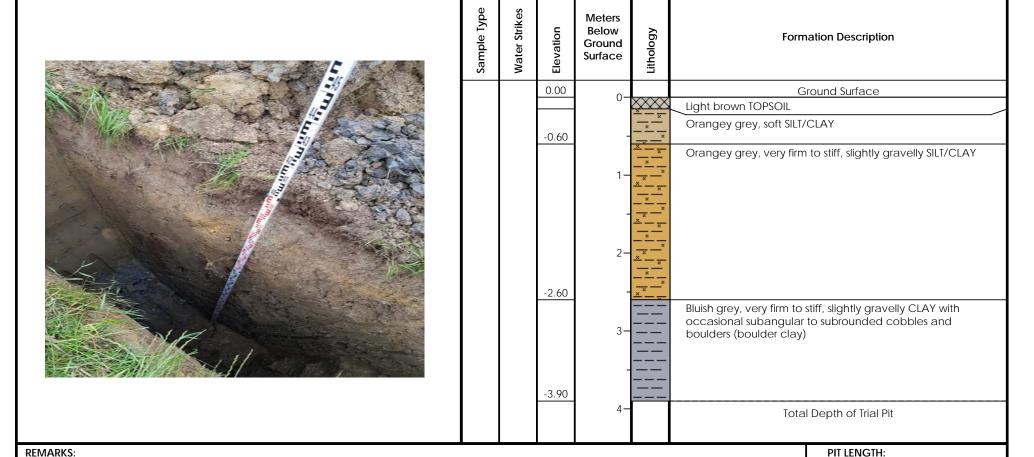
**DATE STARTED**: 25/08/2019

LOGGED BY: D. Broderick CONTRACTOR:

**EASTING**: 255164 **NORTHING:** 320421

TRIAL PIT NUMBER: TP\_T7

**ELEVATION:** 



## 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

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**: 25/08/2019

**EASTING**: 253924

TRIAL PIT NUMBER: TP\_T8

SITE: Drumlins Park, Co. Monaghan

LOGGED BY: D. Broderick

NORTHING: 319853 ELEVATION:

**CLIENT:** Drumlins Park Ltd

PROJECT NUMBER: P1460-0

CONTRACTOR:

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	Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
ı			0.00	0-		Ground Surface
			-0.40	0-		Light brown TOPSOIL
			-1.30	1-	× - × - × - × - × - × - × - × - × - × -	Light brown/grey SILT/CLAY with lenses of grey SILT
			-3.80	- 2- - 3-		Bluish grey, very firm to stiff, slightly gravelly CLAY with occasional subangular to subrounded cobbles and boulders (boulder clay)
ı				4-		Total Depth of Trial Pit

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