



# TRIAL PIT LOG

TRIAL PIT NUMBER: TP\_Substation

PROJECT NUMBER: P1460-0

DATE STARTED: 25/08/2019

EASTING: 255429

SITE: Drumlins Park, Co. Monaghan

LOGGED BY: D. Broderick

NORTHING: 319885

CLIENT: Drumlins Park Ltd

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
		-0.15			Light brown TOPSOIL
					Orangey brown, firm SILT/CLAY
		-1.30	1		
					Dark grey, silty SAND
		-2.20	2		
		-2.30			Dark grey, silty gravelly SAND (flowing sand to due groundwater inflows)
					Total Depth of Trial Pit

## REMARKS:

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:

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SCALE



# TRIAL PIT LOG

TRIAL PIT NUMBER: TP\_T1

PROJECT NUMBER: P1460-0

DATE STARTED: 25/08/2019

EASTING: 253801

SITE: Drumlins Park, Co. Monaghan

LOGGED BY: D. Broderick

NORTHING: 321340

CLIENT: Drumlins Park Ltd

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
		-0.15			Light brown TOPSOIL
		-0.30			Grey, firm SILT
					Orangey grey, firm SILT/CLAY
			1		
			2		
		-2.30			Bluish grey, very firm to stiff, slightly gravelly CLAY with occasional subangular to subrounded cobbles and boulders (boulder clay)
			3		
		-3.70			
			4		Total Depth of Trial Pit

## REMARKS:

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:**

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# TRIAL PIT LOG

TRIAL PIT NUMBER: TP\_T2

PROJECT NUMBER: P1460-0

DATE STARTED: 25/08/2019

EASTING: 253801

SITE: Drumlins Park, Co. Monaghan

LOGGED BY: D. Broderick

NORTHING: 320769

CLIENT: Drumlins Park Ltd

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00			Ground Surface
		-0.15	0	Light brown TOPSOIL	
				Grey, firm SILT	
		-0.60	1	Bluish grey, very firm to stiff, slightly gravelly CLAY with occasional subangular to subrounded cobbles and boulders (boulder clay)	
			2		
			3		
		-3.30			Total Depth of Trial Pit

## REMARKS:

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:**

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## TRIAL PIT LOG

TRIAL PIT NUMBER: TP\_T3

PROJECT NUMBER: P1460-0

SITE: Drumlins Park, Co. Monaghan

CLIENT: Drumlins Park Ltd

DATE STARTED: 25/08/2019

LOGGED BY: D. Broderick

CONTRACTOR:

EASTING: 253281

NORTHING: 320345

ELEVATION:



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
			1		Bluish grey, very firm to stiff, slightly gravelly CLAY with occasional subangular to subrounded cobbles and boulders (boulder clay)
			2		
			3		
		-3.90	4		Total Depth of Trial Pit

### REMARKS:

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:**

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# TRIAL PIT LOG

TRIAL PIT NUMBER: TP\_T4

PROJECT NUMBER: P1460-0

DATE STARTED: 25/08/2019

EASTING: 253654

SITE: Drumlins Park, Co. Monaghan

LOGGED BY: D. Broderick

NORTHING: 320161

CLIENT: Drumlins Park Ltd

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
		-0.40			Light brown TOPSOIL
			1		Orange brown, very firm SILT/CLAY with occasional cobble
		-1.80			
			2		Bluish grey, very firm to stiff, slightly gravelly CLAY with occasional subangular to subrounded cobbles and boulders (boulder clay)
			3		
		-3.50			
			4		Total Depth of Trial Pit

## REMARKS:

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:**

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# TRIAL PIT LOG

TRIAL PIT NUMBER: TP\_T5

PROJECT NUMBER: P1460-0

DATE STARTED: 25/08/2019

EASTING: 254229

SITE: Drumlins Park, Co. Monaghan

LOGGED BY: D. Broderick

NORTHING: 321136

CLIENT: Drumlins Park Ltd

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
		-0.20			Light brown TOPSOIL
					Orangey grey SILT with boulders
			1		
			2		
		-2.30			Bluish grey, very firm to stiff, slightly gravelly CLAY with occasional subangular to subrounded cobbles and boulders (boulder clay)
			3		
		-3.60			
					Total Depth of Trial Pit
			4		

## REMARKS:

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:**

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## TRIAL PIT LOG

TRIAL PIT NUMBER: TP\_T6

PROJECT NUMBER: P1460-0

SITE: Drumlins Park, Co. Monaghan

CLIENT: Drumlins Park Ltd

DATE STARTED: 25/08/2019

LOGGED BY: D. Broderick

CONTRACTOR:

EASTING: 254455

NORTHING: 320609

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
		-0.40			Light brown TOPSOIL
		-1.00	1		Orangey brown, firm SILT/CLAY
		-3.70	2 3		Bluish grey, very firm to stiff, slightly gravelly CLAY with occasional subangular to subrounded cobbles and boulders (boulder clay)
			4		Total Depth of Trial Pit

### REMARKS:

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:

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# TRIAL PIT LOG

TRIAL PIT NUMBER: TP\_T7

PROJECT NUMBER: P1460-0

DATE STARTED: 25/08/2019

EASTING: 255164

SITE: Drumlins Park, Co. Monaghan

LOGGED BY: D. Broderick

NORTHING: 320421

CLIENT: Galatech Energy

CONTRACTOR:

ELEVATION:



Sample Type	Water Strikes	Elevation	Meters Below Ground Surface	Lithology	Formation Description
		0.00	0		Ground Surface
					Light brown TOPSOIL
		-0.60			Orangey grey, soft SILT/CLAY
			1		Orangey grey, very firm to stiff, slightly gravelly SILT/CLAY
			2		
		-2.60			
			3		Bluish grey, very firm to stiff, slightly gravelly CLAY with occasional subangular to subrounded cobbles and boulders (boulder clay)
			4		Total Depth of Trial Pit
		-3.90			

## REMARKS:

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:

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## TRIAL PIT LOG

TRIAL PIT NUMBER: TP\_T8

PROJECT NUMBER: P1460-0

SITE: Drumlins Park, Co. Monaghan

CLIENT: Drumlins Park Ltd

DATE STARTED: 25/08/2019

LOGGED BY: D. Broderick

CONTRACTOR:

EASTING: 253924

NORTHING: 319853

ELEVATION:



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

### REMARKS:

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:**

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SCALE