



















Appendix F

KEY TO SYMBOLS ON EXPLORATORY HOLE RECORDS

All linear dimensions are in metres or millimetres

DESCRIPTIONS

** Drillers Description
Friable Easily crumbled

SAMPLES

U () Undisturbed 102mm diameter sample, () denotes number of blows to drive sampler
U ()F, U ()P F- not recovered, P-partially recovered
U38 Undisturbed 38mm diameter sample
P(F), (P) Piston sample - disturbed
B Bulk sample - disturbed
D Jar Sample - disturbed
W Water Sample
CBR California Bearing Ratio mould sample
ES Chemical Sample for Contamination Analysis
SPTLS Standard Penetration Test S lump sample from split sampler

CORE RECOVERY AND ROCK QUALITY

TCR Total Core Recovery (% of Core Run)
SCR Solid Core Recovery (length of core having at least one full diameter as % of core run)
RQD Rock Quality Designation (length of solid core greater than 100mm as % of core run)
Where there is insufficient space for the TCR, SCR and RQD, the results may be found in the remarks column
lf Fracture Spacing in mm (Minimum/Average/Maximum) NI - non intact, NR - no recovery
AZCL Assumed Zone of Core Loss
NI Non intact

GROUNDWATER

▽ Groundwater strike
▼ Groundwater level after standing period
Date/Water Date of shift (day/month)/Depth to water at end of previous shift shown above the date and depth to water at beginning of shift given below the date

INSITU TESTING

S Standard Penetration Test - split barrel sampler
C Standard Penetration Test - solid 60° cone
SW Self Weight Penetration
Ivp, HVp (R) In Situ Vane Test, Hand Vane Test (R) demonstrates remoulded strength
K(F), (C), (R), (P) Permeability Test
HP Hand Penetrometer Test

MEASURED PROPERTIES

N Standard Penetration Test - blows required to drive 300mm after seating drive
x/y Denotes x blows for y mm within the Standard Penetration Test
x*/y Denotes x blows for y mm within the seating drive
c_u Undrained Shear Strength (kN/m²)
CBR California Bearing Ratio

ROTARY DRILLING SIZES

Index Letter	Nominal Diameter (mm)	
	Borehole	Core
N	75	54
H	99	76
P	120	92
S	146	113



Priority Geotechnical Ltd.
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Drilled By:
 GW
 Logged By:
 EK

Borehole No.
BH011
 Sheet 1 of 2

Project Name:	Gortyrähily and Inchamore Wind Farms	Project No.:	P21139	Co-ords:		Hole Type:	RC
Location:	Gortyrähily, Co.Cork. Inchamore, Co.Cork			Level:	m OD	Scale:	1:50
Client:	Minerex Environmental			Dates:	04/06/2021	04/06/2021	

Well	Water Strike (m)	Depth (m)	Type /Fs (min, max, avg)	Coring (%)			Depth (m) / FI (/m)	Level (mOD)	Legend	Stratum Description	
				TCR	SCR	RQD					
		44 (6,8/44 for 85mm) (C)								Driller describes clayey sandy angular GRAVEL.	1
		0 (47 for 85mm/0 for 0mm) (C) 2.80 - 3.50		100	0	0	2.80			Lithology: Red moderately weak SILTSTONE.	3
		3.50 - 4.40	20mm 140mm 40mm	100	56	0	14/m			Weathering: Core is showing minor signs of weathering. Sections 2.8m-3.5m and 5.7m-6.4m are highly fragmented.	4
		4.40 - 5.70	7mm 190mm 50mm	100	65	8	14/m			Fractures: One set identified. Set one has a dip of 60-70 degrees, an undulating rough fracture surface and close to medium spacing.	5
		5.70 - 6.70	20mm 120mm 60mm	100	24	0				Details: No obvious oxidation discolouration marks. Clay smearing present. Quartz veins present measuring between 2mm-20mm in thickness thickest between 3.5m-5.5m	6
		6.70 - 7.70	20mm 240mm 70mm	100	84	27	7/m				7
		7.70 - 8.70	15mm 380mm 150mm	100	74	45	11/m				8
											9

Groundwater:				Hole Information:			Equipment:	Soilmec PSM	
Struck (m bgl)	Level (m bgl)	After (min)	Sealed	Comment	Hole Depth (m bgl)	Hole Dia (mm)	Casing Dia (mm)	Method:	Compressed air mist.
2.50				See shift data for detail.	10.50	76	131		
Remarks:					Shift Data:		Hole Depth (m bgl)	Remarks	
Borehole terminated at 10.5m bgl.					Groundwater (m bgl)	Shift	0.00	Start of shift.	
					1.85	04/06/2021 08:00	10.50	End of borehole.	
						04/06/2021 18:00			



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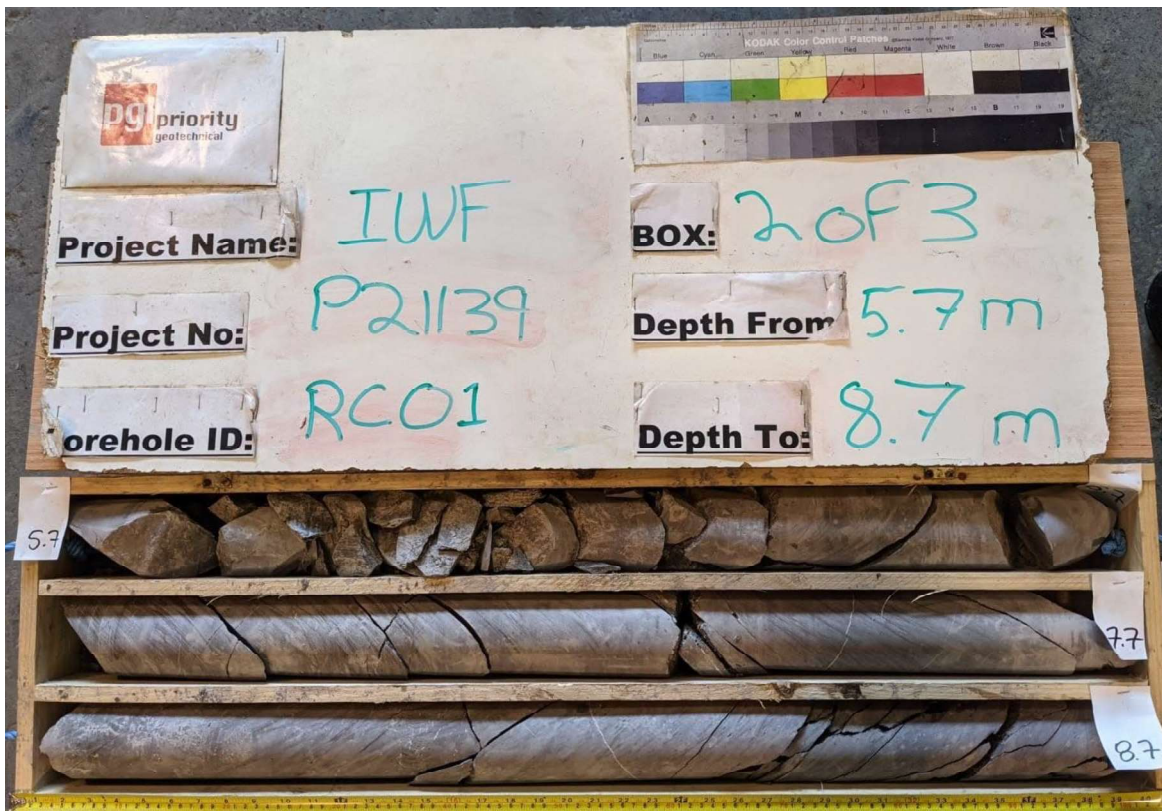
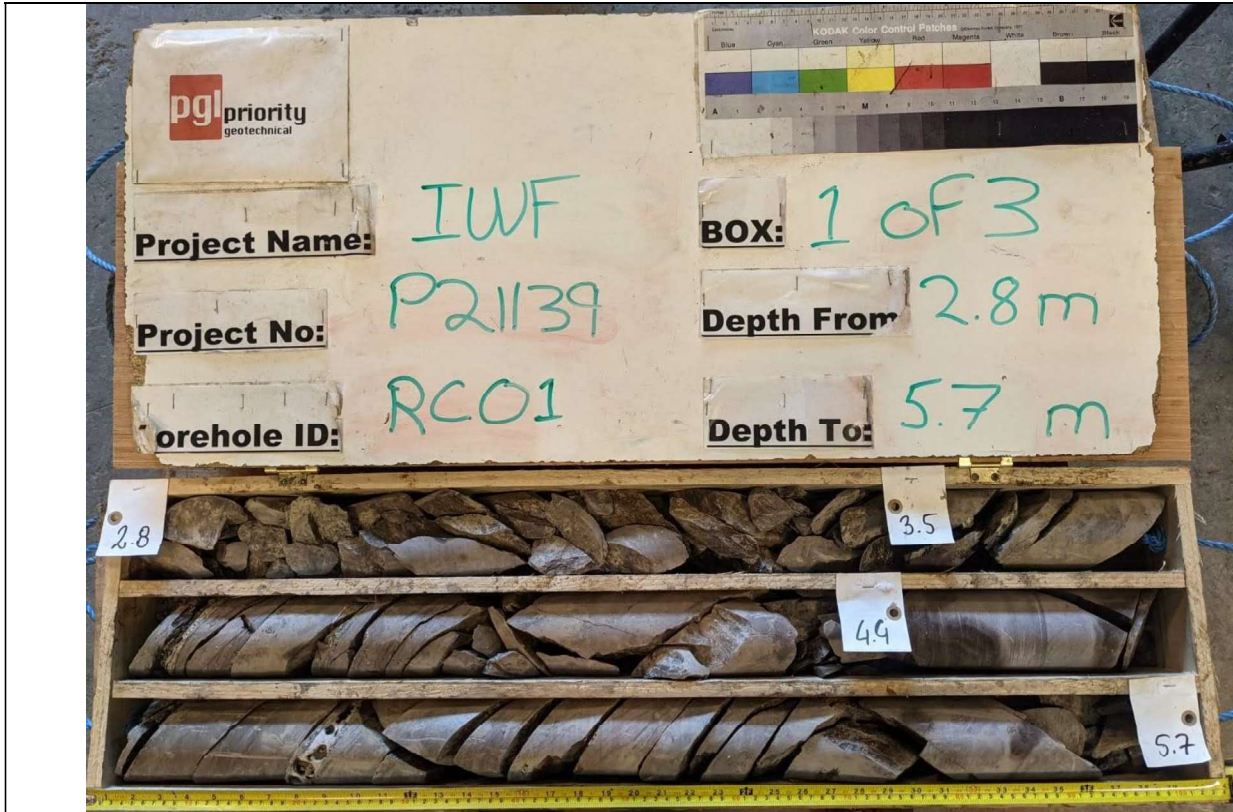
Drilled By:
 GW
 Logged By:
 EK

Borehole No.
BH011
 Sheet 2 of 2

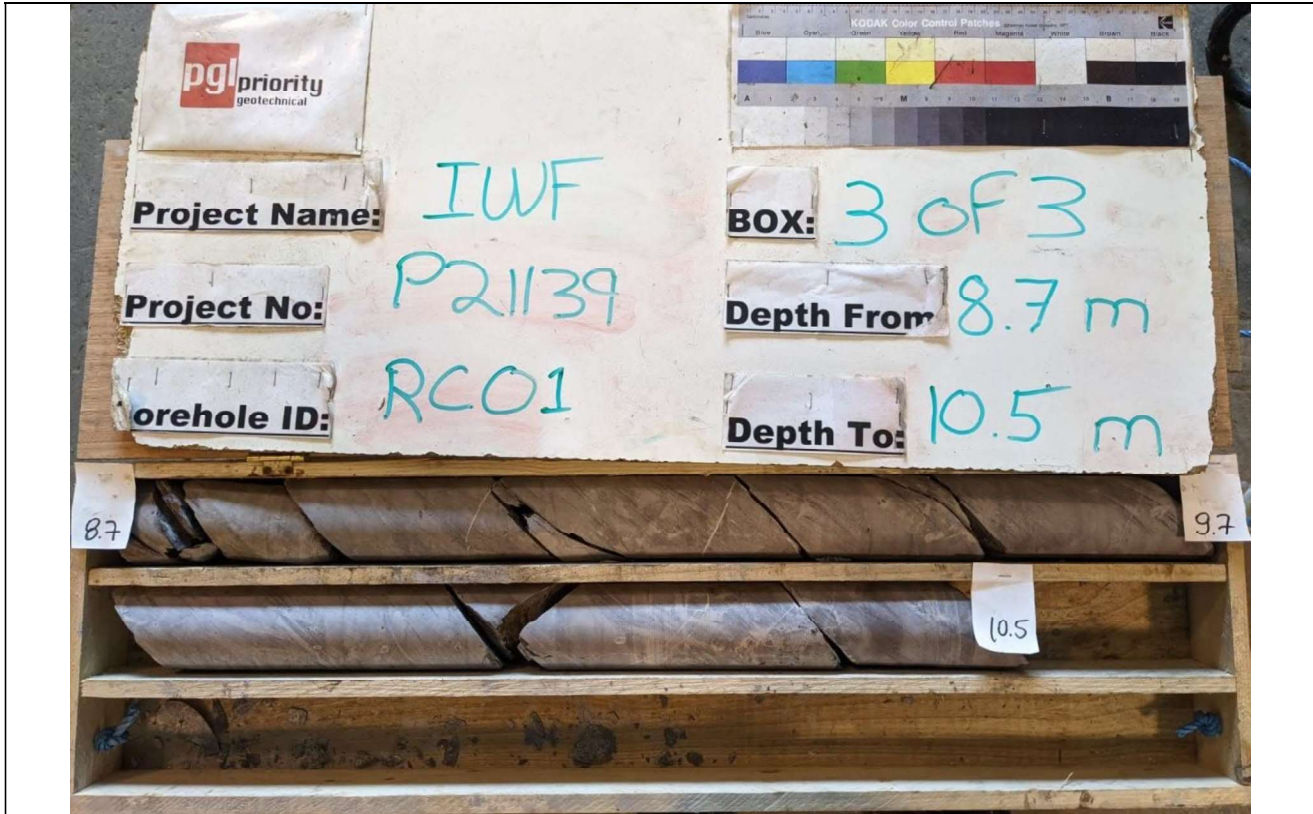
Project Name: Gortyrhily and Inchamore Wind Farms	Project No.: P21139	Co-ords:	Hole Type: RC
Location: Gortyrhily, Co.Cork. Inchamore, Co.Cork	Level: m OD	Scale: 1:50	
Client: Minerex Environmental		Dates: 04/06/2021 04/06/2021	

Well	Water Strike (m)	Depth (m)	Type /Fs (min, max, avg)	Coring (%)			Depth (m) / FI (/m)	Level (mOD)	Legend	Stratum Description
				TCR	SCR	RQD				
		8.70 - 9.70	10mm 180mm 150mm	100	76	24	8/m			Lithology: Red moderately weak SILTSTONE.
		9.70 - 10.50	60mm 290mm 160mm	100	81	54	3/m			Weathering: Core is showing minor signs of weathering. Sections 2.8m-3.5m and 5.7m-6.4m are highly fragmented.
						10.50				Fractures: One set identified. Set one has a dip of 60-70 degrees, an undulating rough fracture surface and close to medium spacing.
										Details: No obvious oxidation discolouration marks. Clay smearing present. Quartz veins present measuring between 2mm-20mm in thickness thickest between 3.5m-5.5m End of Borehole at 10.50m

Groundwater:				Hole Information:			Equipment: Soilmec PSM	
Struck (m bgl)	Level (m bgl)	After (min)	Sealed	Comment	Hole Depth (m bgl)	Hole Dia (mm)	Casing Dia (mm)	
2.50				See shift data for detail.	10.50	76	131	
Remarks: Borehole terminated at 10.5m bgl.					Shift Data:		Method: Compressed air mist.	
					Groundwater (m bgl)	Shift	Hole Depth (m bgl)	Remarks
					1.85	04/06/2021 08:00 04/06/2021 18:00	0.00 10.50	Start of shift. End of borehole.



<p>Number: RC01</p>	<p>Project Inchamore Wind Farm Project No P21139 Engineer Minerex</p>	
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<p>Number: RC01</p>	<p>Project Inchamore Wind Farm Project No P21139 Engineer Minerex</p>	
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KEY TO SYMBOLS - LABORATORY TEST RESULT

U	Undisturbed Sample	
P	Piston Sample	
TWS	Thin Wall Sample	
B	Bulk Sample - Disturbed	
D	Jar Sample - Disturbed	
W	Water Sample	
pH	Acidity/Alkalinity Index	
SO ₃	% - Total Sulphate Content (acid soluble)	
SO ₃	g/ltr - Water Soluble Sulphate (Water or 2:1 Aqueous Soil Extract)	
+	Calcareous Reaction	
Cl	Chloride Content	
PI	Plasticity Index	
<425	% of material in sample passing 425 micron sieve	
LL	Liquid Limit	
PL	Plastic Limit	
MC	Water Content	
NP	Non Plastic	
Y _b	Bulk Density	
Y _d	Dry Density	
Ps	Particle Density	
U/D	Undrained/Drained Triaxial	
U/C	Unconsolidated/Consolidated Triaxial	
T/M	Single Stage/Multistage Triaxial	
100/38	Sample Diameter (mm)	
REM	Remoulded Triaxial Test Specimen	
TST	Triaxial Suction Test	
V	Vane Test	
DSB	Drained Shear Box	
RSB	Residual Shear Box	
RS	Ring Shear	
σ ₃	Cell Pressure	
σ ₁ -σ ₃	Deviator Stress	
c	Cohesion	
c _e	Effective Cohesion Intercept	
φ	Angle of Shearing Resistance - Degrees	
φ _e	Effective Angle of Shearing Resistance	
ε _f	Strain at Failure	
*	Failed under 1 st Load	
**	Failed under 2 nd Load	
#	Unstable	
##	Excessive Strain	
p _o	Effective Overburden Pressure	
m _v	Coefficient of Volume Decrease	
c _v	Coefficient of Consolidation	
Opt	Optimum	
Nat	Natural	
Std	Standard Compaction - 2.5kg Rammer	(¶ CBR)
Hvy	Heavy Compaction - 4.5kg Rammer	(§ CBR)
Vib	Vibratory Compaction	
CBR	California Bearing Ratio	
Sat m.c.	Saturation Moisture Content	
MCV	Moisture Condition Value	



PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P21139

Borehole / Pit No

TP03A2

Location

Gortyrhilly and Inchamore W.F

Sample No

Depth

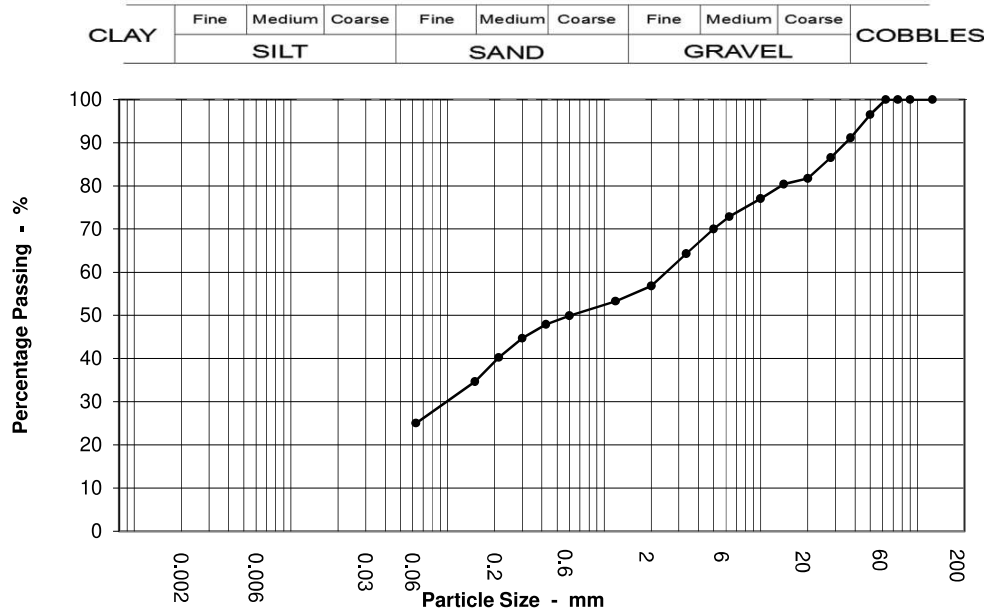
0.00 m

Soil Description

Very clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	97		
37.5	91		
28	87		
20	82		
14	80		
10	77		
6.3	73		
5	70		
3.35	64		
2	57		
1.18	53		
0.6	50		
0.425	48		
0.3	45		
0.212	40		
0.15	35		
0.063	25		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	43.0
Sand	32.0
Silt & Clay	25.0

Grading Analysis	
D100	63.00
D60	2.49
D10	
Uniformity Coefficient	



PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P21139

Borehole / Pit No

TP08A2

Location

Gortyrahilly and Inchamore W.F

Sample No

Depth

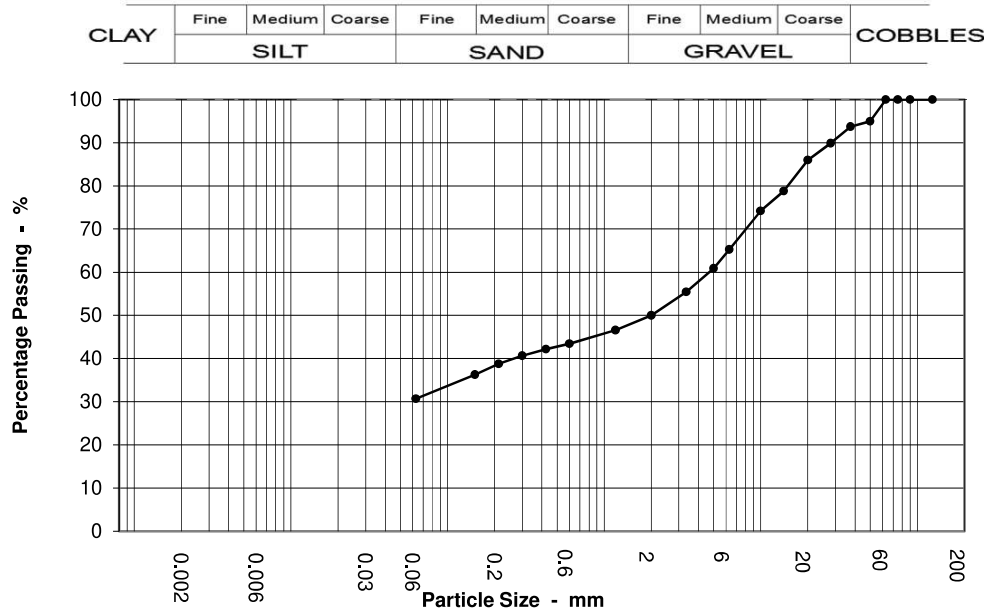
0.00 m

Soil Description

Slightly sandy gravelly CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	95		
37.5	94		
28	90		
20	86		
14	79		
10	74		
6.3	65		
5	61		
3.35	55		
2	50		
1.18	47		
0.6	43		
0.425	42		
0.3	41		
0.212	39		
0.15	36		
0.063	31		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	50.0
Sand	19.0
Silt & Clay	31.0

Grading Analysis	
D100	63.00
D60	4.68
D10	
Uniformity Coefficient	



PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P21139

Borehole / Pit No

TP11A2

Location

Gortyrahilly and Inchamore W.F

Sample No

Depth

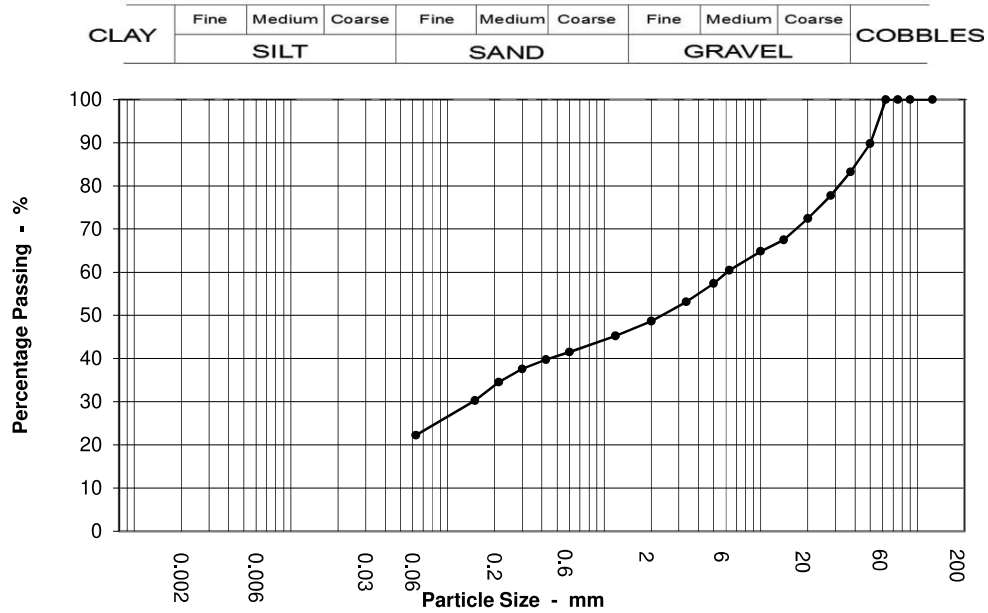
0.00 m

Soil Description

Very clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	90		
37.5	83		
28	78		
20	72		
14	67		
10	65		
6.3	60		
5	57		
3.35	53		
2	49		
1.18	45		
0.6	41		
0.425	40		
0.3	38		
0.212	34		
0.15	30		
0.063	22		

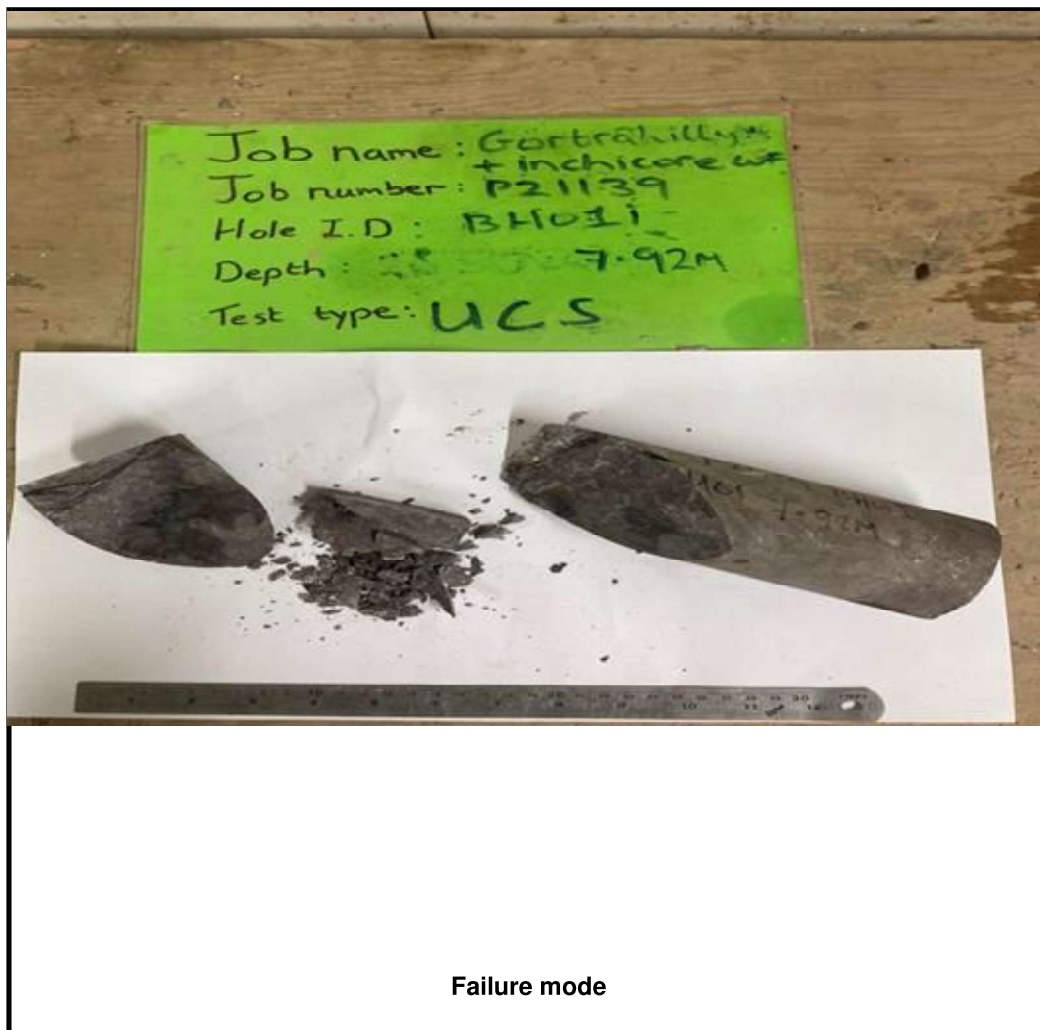
Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	51.0
Sand	26.0
Silt & Clay	22.0

Grading Analysis	
D100	63.00
D60	6.08
D10	
Uniformity Coefficient	

Unconfined Compressive Strength, UCS

Job Name	Inchamore W.F
Job Number	P21139
Borehole:	BH011
Depth:	7.92 m
Rock Type	PURPLE SILTSTONE
Bulk Density	2.73 Mg/m ³
Load at Failure, P	23.3 kN
Stress at Failure	5.17 MPa





Appendix G



PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P21139

Borehole / Pit No

TP03A2

Location

Gortyrahilly and Inchamore W.F

Sample No

Depth

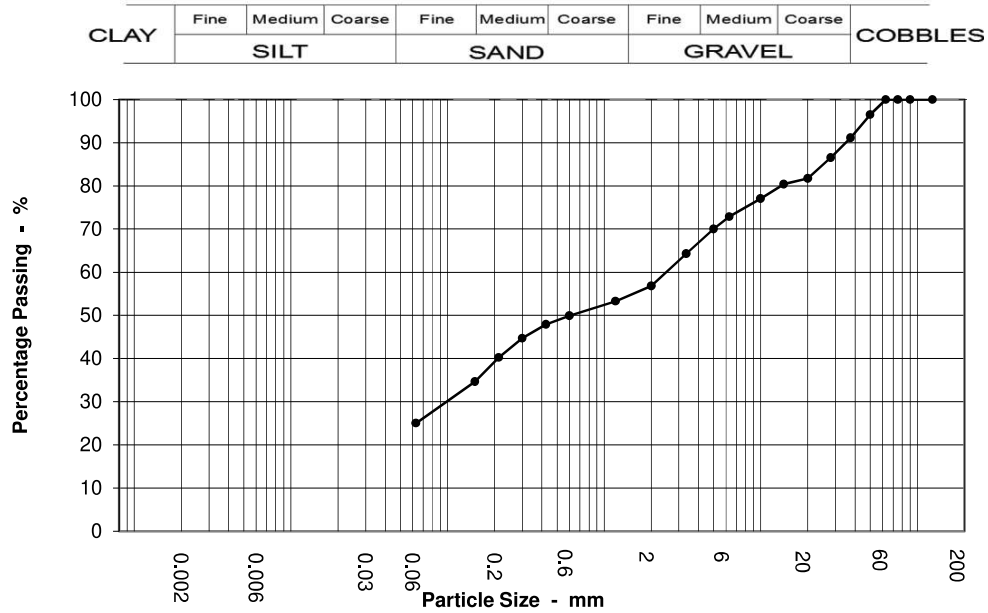
0.00 m

Soil Description

Very clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	97		
37.5	91		
28	87		
20	82		
14	80		
10	77		
6.3	73		
5	70		
3.35	64		
2	57		
1.18	53		
0.6	50		
0.425	48		
0.3	45		
0.212	40		
0.15	35		
0.063	25		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	43.0
Sand	32.0
Silt & Clay	25.0

Grading Analysis	
D100	63.00
D60	2.49
D10	
Uniformity Coefficient	



PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P21139

Borehole / Pit No

TP08A1

Location

Gortyrahilly and Inchamore W.F

Sample No

Depth

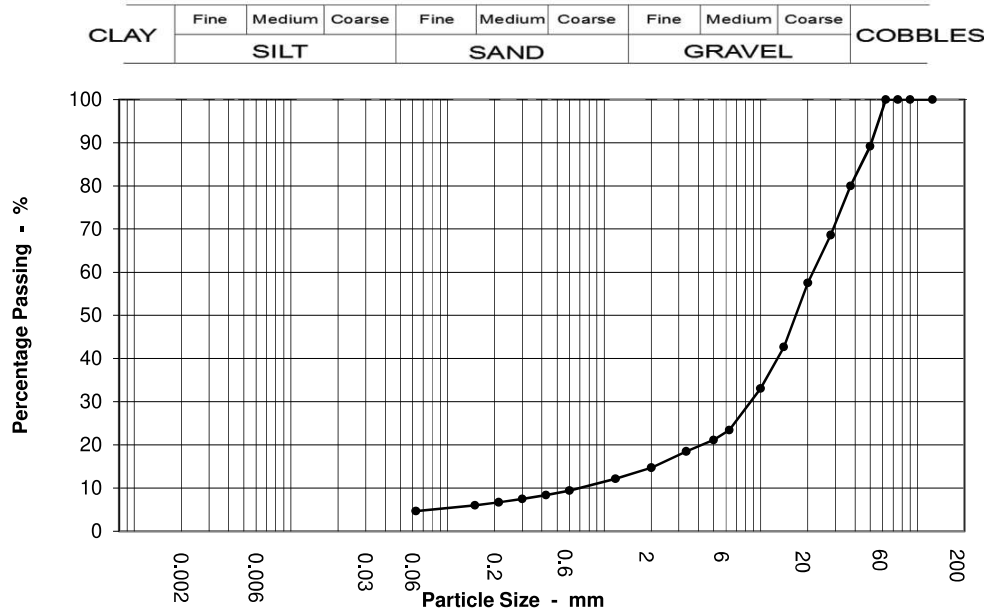
0.00 m

Soil Description

Clayey sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	89		
37.5	80		
28	69		
20	58		
14	43		
10	33		
6.3	23		
5	21		
3.35	18		
2	15		
1.18	12		
0.6	9		
0.425	8		
0.3	7		
0.212	7		
0.15	6		
0.063	5		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	85.0
Sand	10.0
Silt & Clay	5.0

Grading Analysis	
D100	63.00
D60	21.50
D10	0.70
Uniformity Coefficient	31.00



PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P21139

Borehole / Pit No

TP08A2

Location

Gortyrhilly and Inchamore W.F

Sample No

Depth

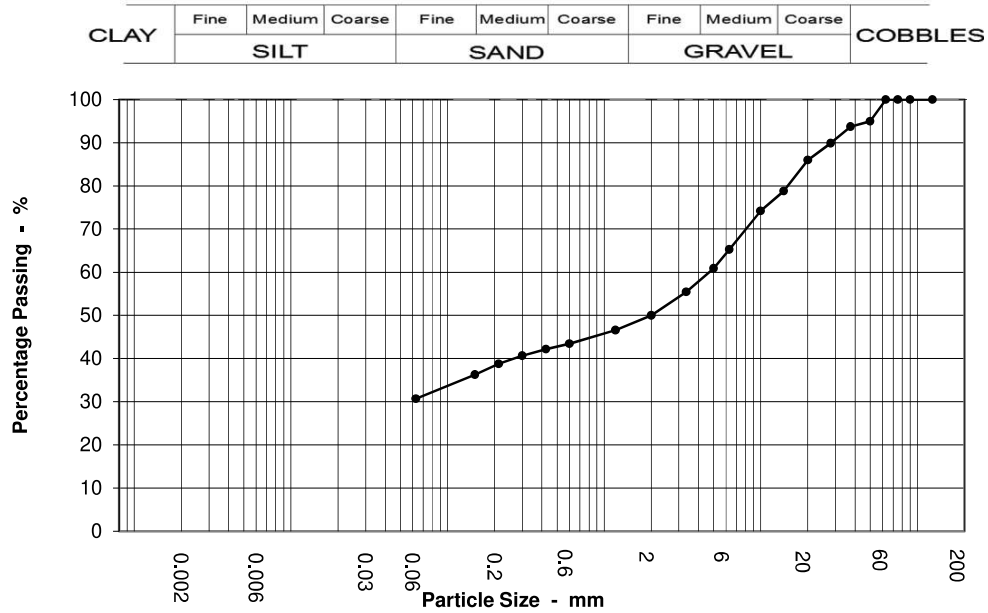
0.00 m

Soil Description

Slightly sandy gravelly CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	95		
37.5	94		
28	90		
20	86		
14	79		
10	74		
6.3	65		
5	61		
3.35	55		
2	50		
1.18	47		
0.6	43		
0.425	42		
0.3	41		
0.212	39		
0.15	36		
0.063	31		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	50.0
Sand	19.0
Silt & Clay	31.0

Grading Analysis	
D100	63.00
D60	4.68
D10	
Uniformity Coefficient	



PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P21139

Borehole / Pit No

TP11A2

Location

Gortyrahilly and Inchamore W.F

Sample No

Depth

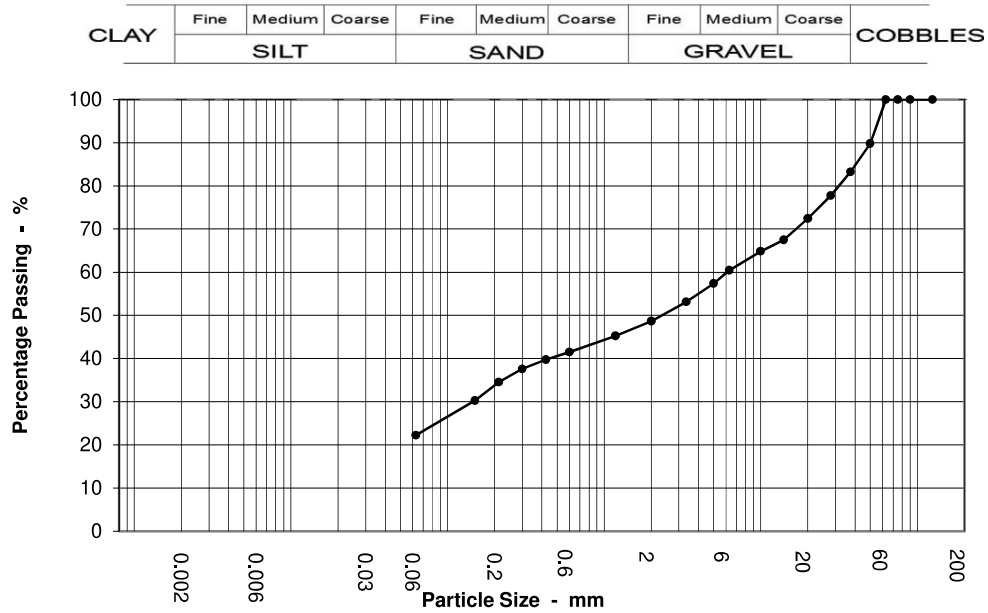
0.00 m

Soil Description

Very clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	90		
37.5	83		
28	78		
20	72		
14	67		
10	65		
6.3	60		
5	57		
3.35	53		
2	49		
1.18	45		
0.6	41		
0.425	40		
0.3	38		
0.212	34		
0.15	30		
0.063	22		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	51.0
Sand	26.0
Silt & Clay	22.0

Grading Analysis	
D100	63.00
D60	6.08
D10	
Uniformity Coefficient	



PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P21139

Borehole / Pit No

TP13A1

Location

Gortyrhilly and Inchamore W.F

Sample No

Depth

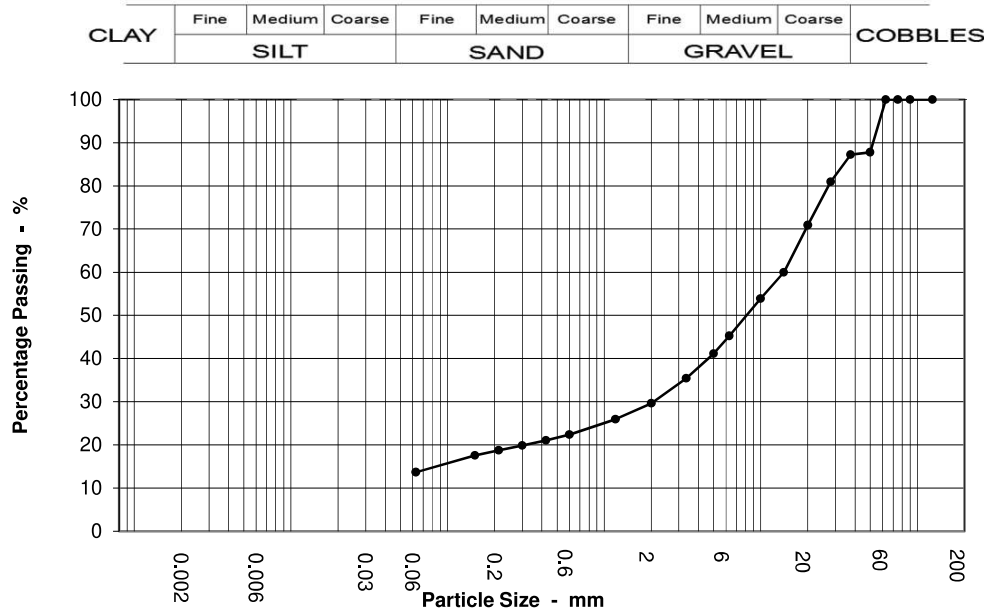
0.00 m

Soil Description

Clayey sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	88		
37.5	87		
28	81		
20	71		
14	60		
10	54		
6.3	45		
5	41		
3.35	35		
2	30		
1.18	26		
0.6	22		
0.425	21		
0.3	20		
0.212	19		
0.15	18		
0.063	14		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	70.0
Sand	16.0
Silt & Clay	14.0

Grading Analysis	
D100	63.00
D60	14.00
D10	
Uniformity Coefficient	



PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P21139

Borehole / Pit No

TP24A1

Location

Gortyrhilly and Inchamore W.F

Sample No

Depth

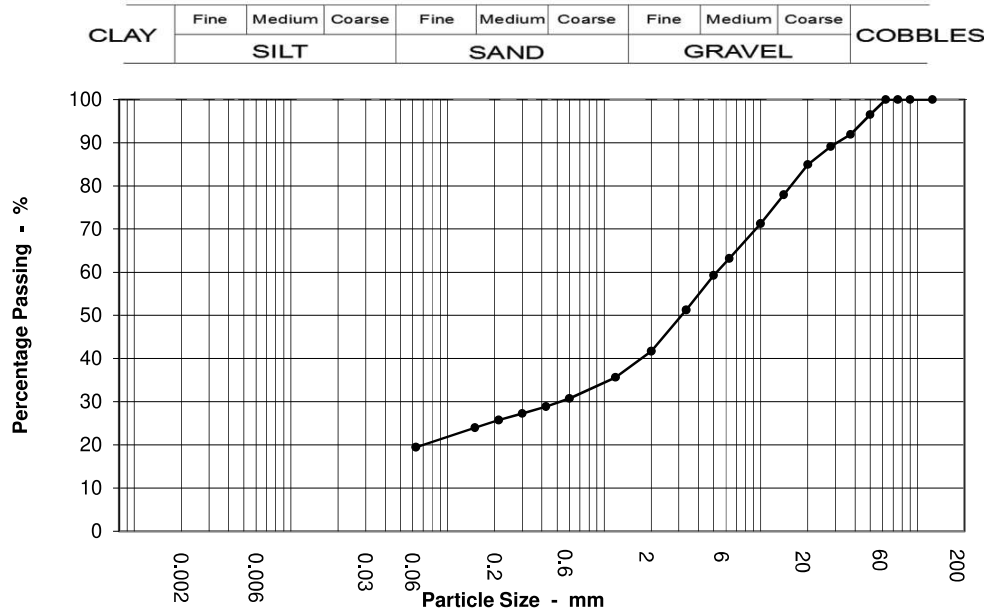
0.00 m

Soil Description

Clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	97		
37.5	92		
28	89		
20	85		
14	78		
10	71		
6.3	63		
5	59		
3.35	51		
2	42		
1.18	36		
0.6	31		
0.425	29		
0.3	27		
0.212	26		
0.15	24		
0.063	19		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	58.0
Sand	22.0
Silt & Clay	19.0

Grading Analysis	
D100	63.00
D60	5.21
D10	
Uniformity Coefficient	



PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P21139

Borehole / Pit No

TP30A1

Location

Gortyrhilly and Inchamore W.F

Sample No

Depth

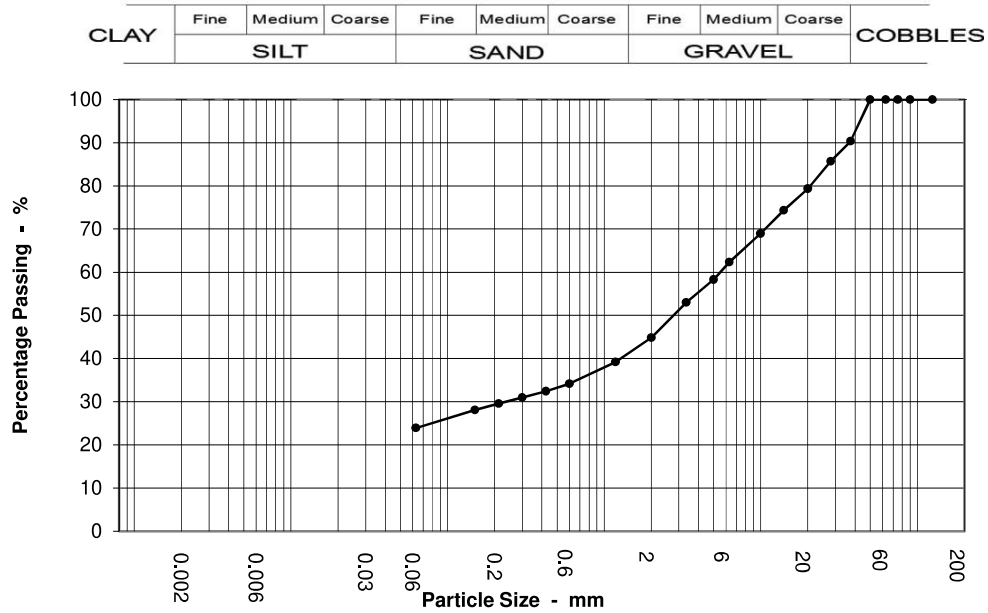
0.00 m

Soil Description

Very clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	90		
28	86		
20	79		
14	74		
10	69		
6.3	62		
5	58		
3.35	53		
2	45		
1.18	39		
0.6	34		
0.425	32		
0.3	31		
0.212	30		
0.15	28		
0.063	24		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	55.0
Sand	21.0
Silt & Clay	24.0

Grading Analysis	
D100	50.00
D60	5.51
D10	
Uniformity Coefficient	



Appendix H

Inchamore Wind Farm
 Inchamore, Co. Cork / Co. Kerry
 App 8.1 - App H (a) 3188-A2 (01) IWF SI
 Geohazards - Overview

Legend

Development Layout

- WF Red Line 23
- 230313 Site Layout
- Turbine Locations
- Site Entrances
- Proposed Met Mast
- Watercourse Crossings
- Proposed Borrow Pits
- Proposed Temporary Construction Compound
- Proposed On-Site Substation
- BH location
- House Locations

UGC

- Inchamore Grid Connection Route
- HDD Crossings

Delivery

- Redline-250 Haul Road - 256-Polyline
- Turbine Delivery Route
- Redline-250 Haul Road - 256-Polyline
- Turbine Delivery Route

Hydrology

- WFD_RiverWaterbodiesActive
- 25m SW Buffer
- 50m SW Buffer
- 15m Existing Significant Drain Buffer
- A1&A2_Existing Drainage

Topography

- 10 m GDEM Contours
- Bedrock Outcrop (GSI)
- Bedrock Outcrop Observed

Geology


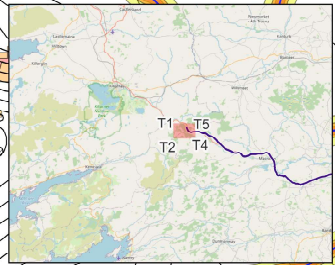
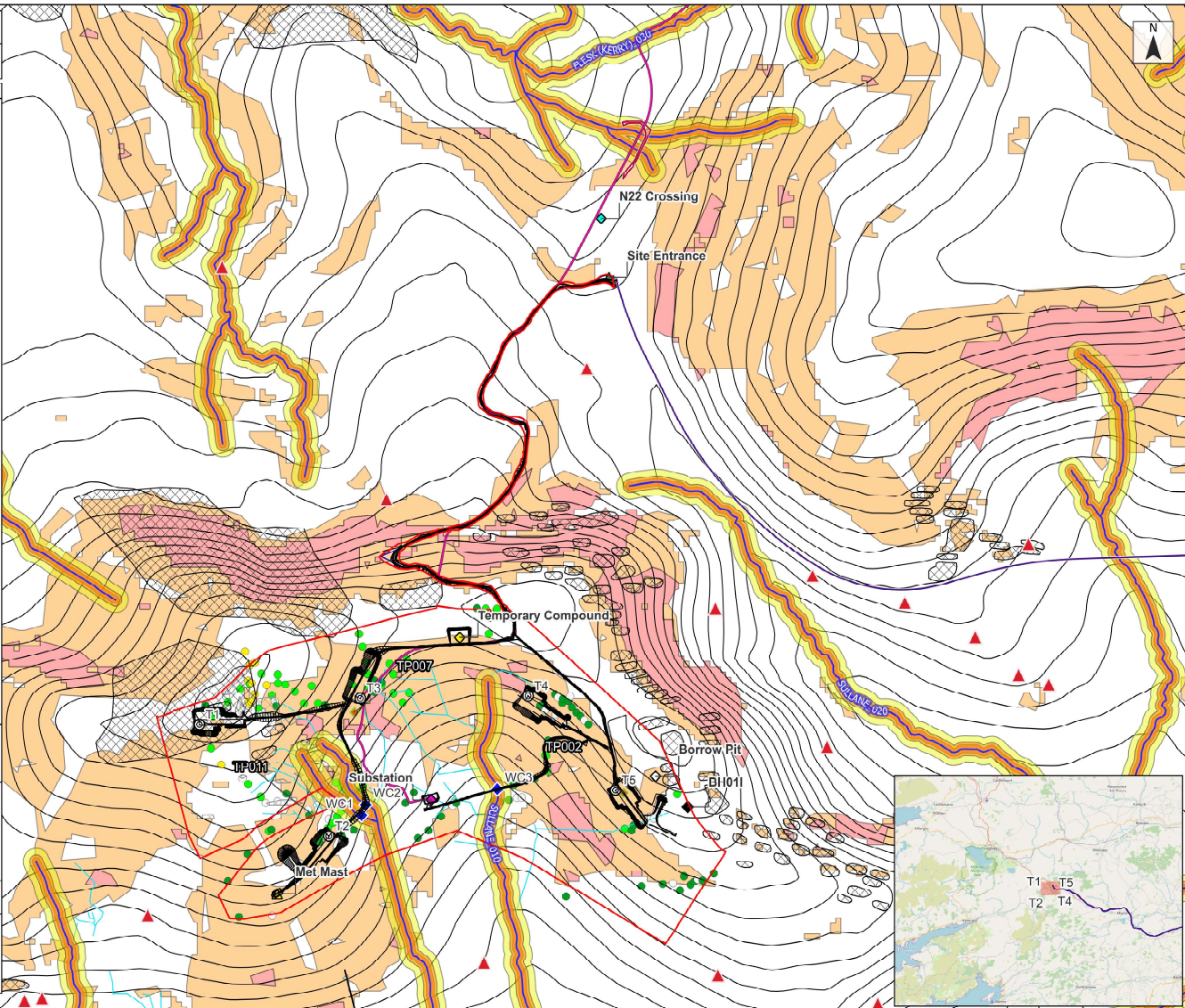
- 3188-A2-IWF Peat Depth Probe Data
 - 0.0 - 0.1m
 - 0.1 - 0.5m
 - 0.5 - 2.0m
 - 2.0 - 3.5m
- Geological Linework (100k GSI)
- Landslide Susceptibility
 - High
 - Moderately High
- 3188-A2-IWF SI Inal PIT Data
 - Yes, Inal Pits Present

Project ID: 604162 Inchamore Wind Farm
 Projection: ITM
 Drawn by: Sven K.
 Reviewed by: Sven K.
 Version: 13/04/2023

References/Sources:
 Environmental Protection Agency (EPA)
 Geological Services Ireland (GSI)
 Bing Aerial / Copernicus / Open Street Map / Google Roads
 GDEM Elevation Contours
 Phase 1 (250m Grid Peat Depth) - GreenSource

Note: Data points presented are georeferenced using open source data and/or a handheld GPS. This drawing / map is considered a conceptual model with reasonable accuracy for the purposes of environmental assessment. This drawing should not be relied upon for detailed design purposes.

Scale: 0 200 400 m

Inchamore Wind Farm
 Inchamore, Co. Cork / Co. Kerry
 App 8.1 - App H (b) 3188-A2 (01) IWF SI
 - Geol Hazards - W NW

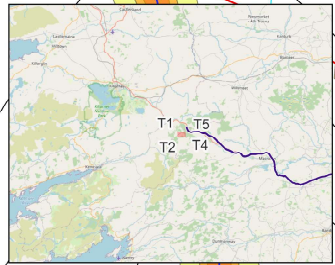
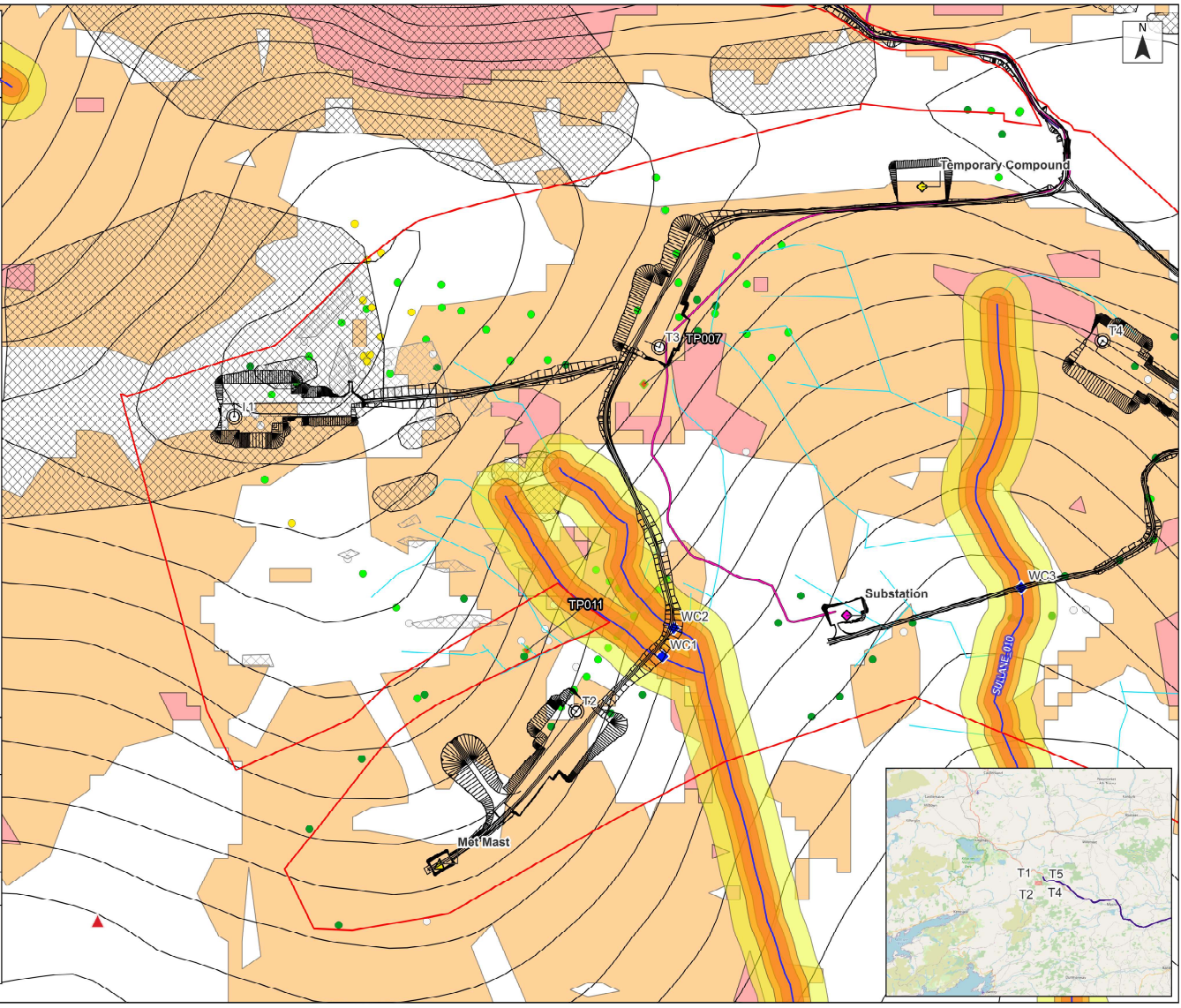
- Legend**
- Development Layout**
- WF Red Line 23
 - 230313 Site Layout
 - Turbine Locations
 - Proposed Met Mast
 - Watercourse Crossings
 - Proposed Temporary Construction Compound
 - Proposed On-Site Substation
 - House Locations
- UGC**
- Inchamore Grid Connection Route
- Delivery**
- Turbine Delivery Route
- Hydrology**
- WFD_RiverWaterbodies/Active
 - 25m SW Buffer
 - 50m SW Buffer
 - 15m Existing Significant Drain Buffer
 - A1&A2_Existing Drainage
- Topography**
- 10 m CDEM Contours
 - Bedrock Outcrop (GSI)
 - Bedrock Outcrop (Other)
- Geology**
- 3188 A2 IWF Peat Depth Probe Data
 - 0.0 - 0.1m
 - 0.1 - 0.5m
 - 0.5 - 2.0m
 - 2.0 - 3.5m
- Landslide Susceptibility**
- High
 - Moderately High
- 3188 A2 IWF SI Trial Pit Data
- Yes, Iron Pan Present

Project ID: 604162 Inchamore Wind Farm
 Projection: ITM
 Drawn by: Sven K.
 Reviewed by: Sven K.
 Version: 13/04/2023

References/Sources:
 Environmental Protection Agency (EPA)
 Geological Services Ireland (GSI)
 Bing Aerial / Coastline / Open Street Map / Google Roads
 CDEM Elevation Contours
 Phase 1 (250m Grid Peat Depth) - GreenSource

Note: Data points presented are georeferenced using open source data and/or a handheld GPS. This drawing / map is considered a conceptual model with reasonable accuracy for the purposes of environmental assessment. This drawing should not be relied upon for detailed design purposes.

Scale: 0 100 200 m



Inchamore Wind Farm
 Inchamore, Co. Cork / Co. Kerry
 App 8.1 - App H (c) 3188-A2 (01) IWF SI
 - Geol Hazards - E SI

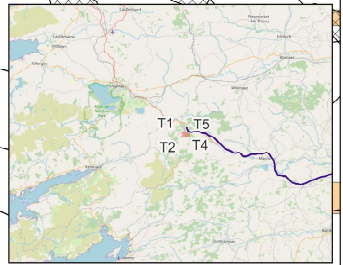
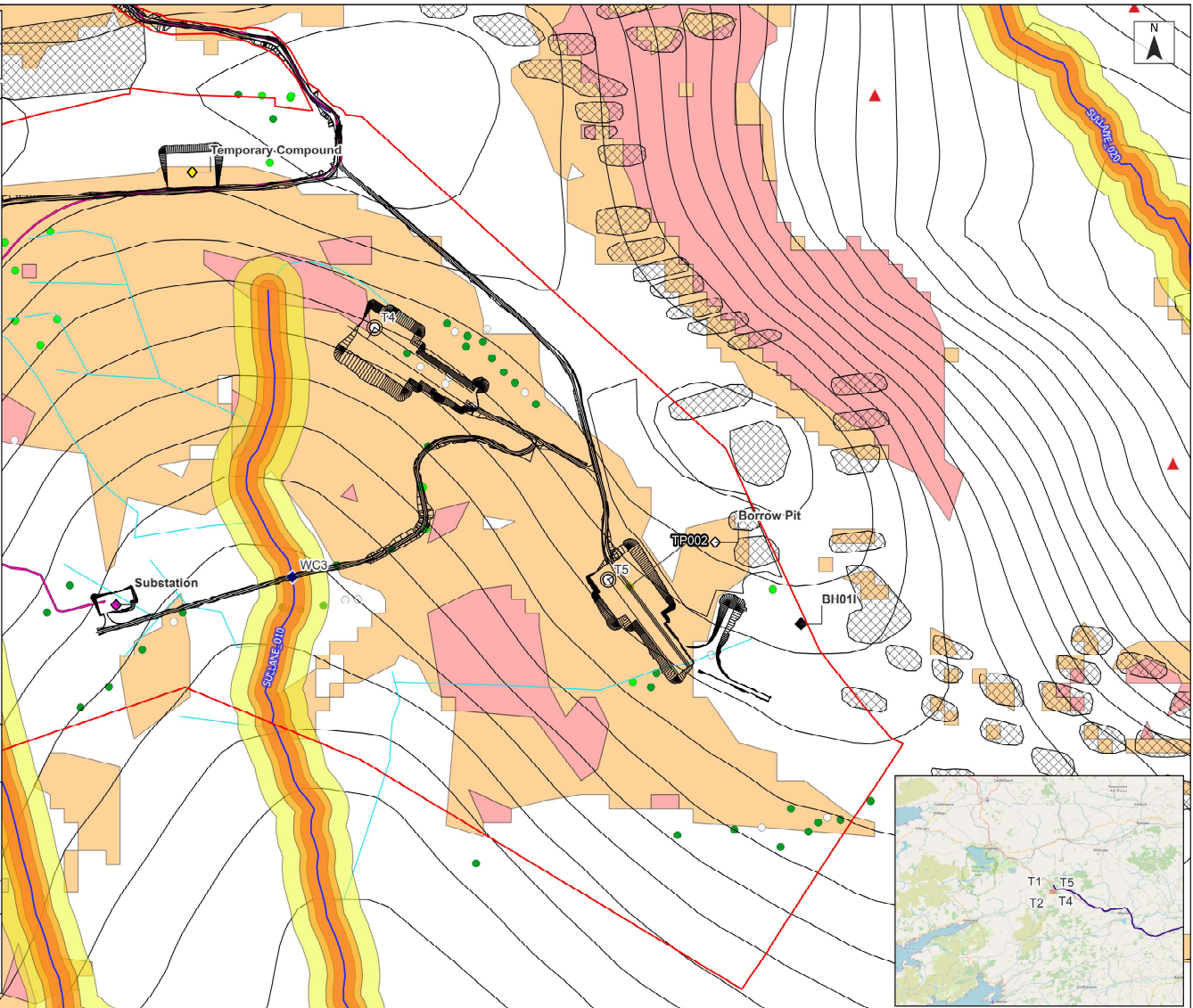
- Legend**
- Development Layout**
- Red Line 23
 - 230313 Site Layout
 - Turbine Locations
 - Watercourse Crossings
 - Proposed Borrow Pits
 - Proposed Temporary Construction Compound
 - Proposed On-Site Substation
 - BH location
 - House Locations
- UGC**
- Inchamore Grid Connection Route
 - Turbine Delivery Route
 - Turbine Delivery Route
- Hydrology**
- WFD River/Waterbodies/Active
 - 25m SW Buffer
 - 50m SW Buffer
 - 15m Existing Significant Drain Buffer
 - A1&A2 Existing Drainage
- Topography**
- 10 m GDEM Contours
 - Bedrock Outcrop (GSI)
 - Bedrock Outcrop Observed
- Geology**
- 3188-A2-IWF Peat Depth Probe Data
 - 0.0 - 0.1m
 - 0.1 - 0.5m
 - 0.5 - 2.0m
- Landslide Susceptibility**
- HfgI
 - Moderately High
- 3188-A2-IWF SI Trial PIT Data**
- Yes, Iron Pan Present

Project ID: 604162 Inchamore Wind Farm
 Projection: ITM
 Drawn by: Sven K.
 Reviewed by: Sven K.
 Version: 13/04/2023

References/Sources:
 Environmental Protection Agency (EPA)
 Geological Services Ireland (GSI)
 Bing Aerial / Google / Open Street Map / Google Roads
 GDEM Elevation Contours
 Phase 1 (250m Grid Peak Depth) - GreenSource

Note: Data points presented are georeferenced using open source data and/or a handheld GPS. This drawing / map is considered a conceptual model with reasonable accuracy for the purposes of environmental assessment. This drawing should not be relied upon for detailed design purposes.

Scale: 0 100 200 m





Appendix I

Appendix I Stability Risk Matrices and Ratings.



Accounting for Landslide History and Substrate Topology with a view to adjusting calculated FoS (FoS Adjustment = $\mu_{STOP} * \mu_{His}$)		Landslide History (μ_{His})		
		No History of Landslides in the vicinity of site.	Some instances of landslides in the vicinity of site	Recorded landslides occurrences within the site
Substrate Topology Characteristics (μ_{Topo})	μ	1	2	4
Substrate is parallel to surface topology.	4	FoS -0.25	FoS - 0.5	FoS - 0.5
Substrate varies from surface topology to a minor extent.	2	FoS + 0.0	FoS -0.25	FoS - 0.5
Substrate varies from surface topology to a significant extent.	1	FoS + 0.25	FoS + 0.0	FoS -0.25

FoS Adjustment Coefficient (μ)	4	8	16
	2	4	8
	1	2	4

Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors ($RR_{SF} = \mu_{FoS} * \mu_{SF}$)		FoS re Slope Stability (μ_{FoS})		
		Acceptable (FoS = >1.3)	Marginally Stable (Acceptable) (FoS = 1-1.3)	Unstable (FoS = <1)
Significant Feature (μ_{SF})	μ	1	2	4
Non-critical infrastructure.	1	Neg.	Neg.	Low
Sensitive receptors e.g. surface water feature	2	Neg.	Low	Mod.
Community, dwellings and buildings.	4	Low	Mod.	High

RR _{SF} Coefficient (μ)	1	2	4
	2	4	8
	4	8	16

Accounting for distance to Sensitive Receptors ($RR_D = \mu_{RRSF} * \mu_{Dist.}$)		Distance to Sig. Feature ($\mu_{Dist.}$)		
		>150m	50-150m	<50m
Risk Ranking re Significant Feature (μ_{RRSF})	μ	1	2	4
Neg. ($RR_{SF} = 1-2$)	1	Neg.	Low	Mod.
Low ($RR_{SF} = 4$)	2	Low	Mod.	High
Mod. ($RR_{SF} = 8$)	4	Mod.	High	High
High ($RR_{SF} = 16$)	8	High	High	High

RR _D Coefficient (μ)	1	2	4
	2	4	8
	4	8	16
	8	16	32