

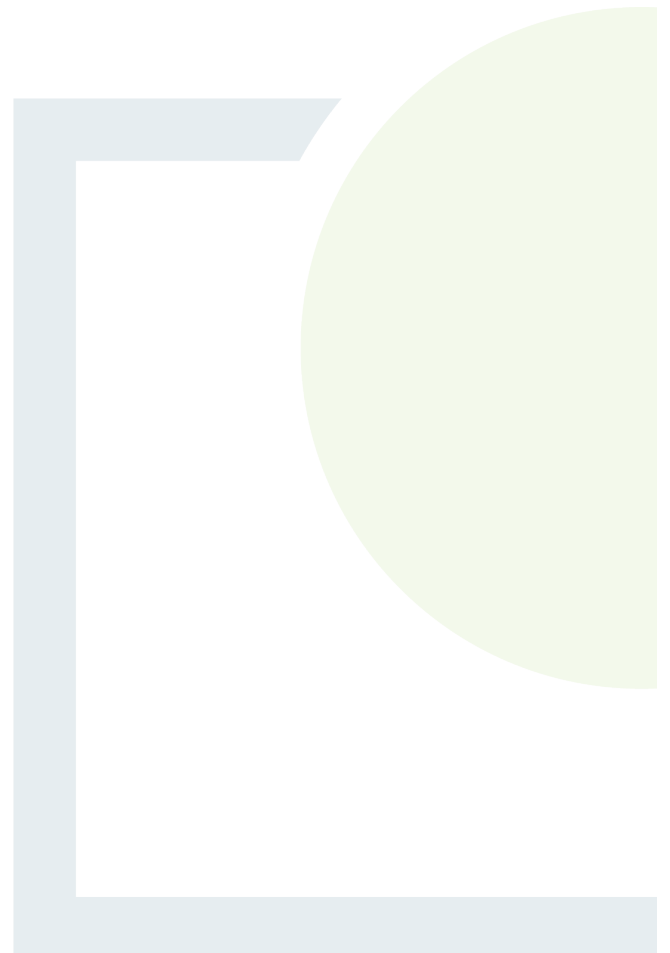


**FEHILY
TIMONEY**

**CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE
& PLANNING**

Appendix 9.2

Factual Ground Investigation Report



IRISH DRILLING LIMITED

LOUGHREA, CO. GALWAY, IRELAND



CONTRACT DRILLING
SITE INVESTIGATION

Phone: (091) 841 274
Fax: (091) 847 687

email: info@irishdrilling.ie

BALLINAGREE WIND FARM

SITE INVESTIGATION CONTRACT FACTUAL REPORT

Coillte,
Newtownmountkennedy,
Co. Wicklow.

Fehily Timoney & Company,
Consulting Engineers,
Singleton's Lane,
Bagenalstown,
Carlow.

| | Prepared by | Approved by | Rev. Issue Date: | Revision No. |
|------------------|--------------------|--------------------|---------------------------|---------------------|
| | Ronan Killeen | Declan Joyce | 15 th June2021 | 21_C_101/02 |
| <u>Signature</u> | | | | |

FOREWORD

The borehole and trial pit records have been compiled from an examination of the samples by a Geotechnical Engineer and from the Drillers' descriptions.

The report presents an opinion on the configuration of the strata within the site based on the borehole and trial pit results. The assumptions, though reasonable, are given for guidance only and no liability can be accepted for changes in conditions not revealed by the boreholes and trial pits.

The fieldwork was carried out in accordance with IS EN 1997-2 and BS5930, 2015 Code of Practice for Site Investigations with precedence given to IS EN 1997-2 where applicable.

Contents:

| | |
|-------------|--------------------------------|
| 1.0 | Introduction |
| 2.0 | The Site & Geology |
| 3.0 | Fieldwork |
| | |
| Book 1 of 1 | |
| Appendix 1 | Borehole Records (Rotary Core) |
| Appendix 2 | Trial Pit Records |
| Appendix 3 | Groundwater Readings |
| Appendix 4 | Photographs (Rotary Core) |
| Appendix 5 | Photographs (Trial Pits) |
| Appendix 6 | Site Plans |
| Appendix 7 | Digital Data (AGS Files) |

1.0 Introduction.

Irish Drilling Ltd. (IDL) was instructed by Fehily Timoney & Company, Consulting Engineers, on behalf of Coillte, to carry out a site investigation at the site of the proposed Ballinagree Wind Farm.

This site investigation was carried out to provide detailed factual geotechnical information of the underlying ground conditions at the proposed wastewater treatment works site.

The fieldwork commenced on March 8th 2021 and was completed on May 14th 2021.

2.0 Site & Geology

The site is located near Ballinagree, County Cork.

The fieldwork was carried out predominantly on privately owned farmland and forestry lands owned by Coillte.

Site Plans, prepared by the client's representatives and amended by IDL to show approximate 'as-built' locations, are included with this report.

Geological Survey Maps of the area indicate that the site is underlain by the Old Red Sandstone Rock Formation.

3.0 Fieldwork.

The following plant was mobilised to site to carry out fieldwork operations:

DeltaBase 520 Rotary Core Drill Rig.
Hyundai HX140 Wide-Tracked Excavator.

Fieldwork carried out to date has included the following:

Five rotary core boreholes were carried out to establish overburden conditions and rockhead and to establish the nature and integrity of the underlying rock.

Wireline drilling techniques, using HQ size drill strings, were carried out to recover soil and rock core samples. The core samples recovered consisted of the following core diameters: 64mm (HQ).

The samples were stored in wooden boxes and returned to the laboratory where there were logged and photographed by a Geotechnical Engineer and presented for testing.

A 50mm standpipe was installed in all five boreholes to allow for the monitoring of groundwater levels over a prolonged period of time.

The rotary core boreholes were carried out to depths ranging from 15.00m to 15.20m below ground level.

A summary of water levels recorded during the fieldwork period is included with this report as Appendix 3.

Sixty-three trial pits were excavated on site using a tracked excavator.

The pits were logged and photographed by an Engineer with observations made on ground conditions, pit stability, water ingress and services encountered.

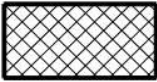
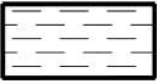

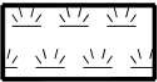
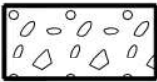


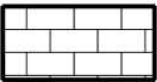
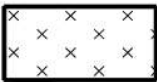
Small and bulk disturbed soil samples were recovered at each change in strata and returned to the laboratory and presented for testing.

The borehole and trial pit locations were set out on site using a Trimble CU Bluetooth GPS Surveying Unit and the co-ordinates are included on the logs presented in the appendices.

All fieldwork co-ordinates are reported to Irish Transverse Mercator (ITM) with Reduced Levels recorded relative to Malin Head Datum and with an accuracy level of + or – 0.10m.

The fieldwork was carried out in accordance with IS EN 1997-2 and BS5930, 2015 Code of Practice for Site Investigations with precedence given to IS EN 1997-2 where applicable.

The following Key Legend Table details the symbology used on the engineering logs to describe ground conditions encountered:

| Legend: | | | |
|---|--------------------------|--|-----------------|
|  | Made ground=mg |  | Clay=cl |
|  | Boulders and cobbles=b/c |  | Peat=p |
|  | Gravel=g |  | Silty sand=s/si |
|  | Sand=s |  | Rock=r |
|  | Silt=si | | |

Ground conditions encountered during the completion of the fieldwork were typical and as expected for this region and predominantly consisted of Peat overlying Glacial Till overlying possible bedrock.

The Glacial Till in general consisted of slightly sandy gravelly silt/clay and/or silty sands and gravels with occasional, some or many cobbles and boulders.

Peat was encountered at many locations at a depth ranging from 0.10m to 2.80m below ground level.

Made ground was encountered at a number of trial pit locations to depths ranging from 0.70m to 2.10m to and consisted of slightly sandy gravelly clay and peat with roots and branches and/or gravel, cobbles and boulders.

Intact bedrock was encountered in the rotary core boreholes at depths ranging from 1.60m to 5.00m below ground level. Bedrock was not encountered at RC 02 to a depth of 15.00m bgl before borehole termination.

Intact bedrock in general is predominantly described as strong, locally very strong thinly-bedded siltstone.

Possible weathered bedrock was also encountered in a number of boreholes and many of the trial pits at shallower depths and for detailed descriptions of bedrock encountered please refer to the engineering logs included in appendix 1 of this report.

Bedding planes are defined as the surface that separates one stratum, layer or bed stratified rock from another. Discontinuity is defined as the plane of physical weakness where the tensile strength perpendicular to the discontinuity or the shear strength along the discontinuity is lower than that of the surrounding soil or rock material.

For detailed descriptions of the ground conditions encountered please refer to the engineering logs included in the appendices of this report.

The soil and rock descriptions as noted on the borehole and trial pit logs are in general visual descriptions as observed and logged by our Engineers and are described in accordance with IS EN 1997-2 and BS5930, 2015 Code of Practice for Site Investigations.

Soils descriptions (cohesive or otherwise) are also initially assessed based on the texture and 'feel' of the soil materials as witnessed by our Geotechnical Engineers and in accordance with IS EN 1997-2 and BS5930.

Where laboratory classification tests have been carried out on soil or rock samples then these visual descriptions have been amended accordingly to take into account the results of these classification tests.

The records of all fieldwork, laboratory test results and photographs are included in the appendices of this Factual Report.



Appendix 01

Borehole Records (Rotary Core)



Irish drilling LTD

DRILLHOLE LOG

| | | | | | | |
|--|------------------------------|-------------------------------|--|---------------------|------------------------|--|
| Project Ballinagree Wind Farm | | | | Location Co Cork | | DRILLHOLE No RC01 |
| Job No 2021C101 | Date 10-05-21 11-05-21 | Ground Level (m OD) 453.47 | Co-Ordinates () E 533,664.1 N 584,315.2 | | | |
| Engineer Fehily Timoney & Co | | | | | Sheet 2 of 2 Rev. 1 | |

| RUN DETAILS | | | | | STRATA | | | Geology | Instrument/ Backfill |
|---------------|---------------------|------------------------------|-----------------|-----------------|---------------------------|--|------|--|-------------------------|
| Depth Date | TCR (SCR) RQD | (SPT) Fracture Spacing | Red'cd Level | Legend | Depth (Thick- ness) | DESCRIPTION | | | |
| | | | | Discontinuities | | Detail | Main | | |
| 12.20 | 100 (98) 96 | 2 | | | (4.20) | 11.00 - 15.20 Discontinuities, medium spaced, locally closely spaced, dipping 12 to 14°, stepped, rough, with 0.5 to 2mm thick greenish grey silt smear. | | Very strong locally extremely strong thinly bedded pinkish grey fine grained SANDSTONE. 12.20m to 15.20m: grey. 12.65m to 13.00m: with fine to medium gravel sized clasts of white quartz. | [Pattern] |
| 13.70 | 100 (83) 71 | 8 | | | | | | | |
| | | 3 | | | | | | | |
| 15.20 | 100 (94) 87 | 3 | 438.27 | | 15.20 | | | | |
| | | | | | | BH terminated at 15.20m bgl on REs instruction. | | | |

| Drilling Progress and Water Observations | | | | | | | | Rotary Flush | | | | GENERAL REMARKS |
|--|-------|-------|-----------------|---------------|----------------|-----------------|-------------------|--------------|--------|------|------------|--------------------|
| Date | Time | Depth | Casing Depth | Casing Dia | Core Dia mm | Water Strike | Water Standing | From (m) | To (m) | Type | Return (%) | |
| 10-05-21 | 17.00 | 12.20 | 1.00 | 99 | 63 | | | | | | | |
| 11-05-21 | 08.00 | 12.20 | 1.00 | 99 | 63 | | | | | | | |
| 11-05-21 | 12.00 | 15.20 | 1.00 | 99 | 63 | | | | | | | |

| | | | | | |
|---|-----------------|---------------------------------|---------------------------|---------------|------------------|
| All dimensions in metres Scale 1:68.75 | Client: Coillte | Method/ Plant Used Hydreq | Bit Design HQ DK | Driller DK | Logged By EAT |
|---|-----------------|---------------------------------|---------------------------|---------------|------------------|

IDL AGS UK DH (SPTS) BALLINAGREE WF RC FILE 1 MAY 28 2021.GPJ IDL TP TEMPLATE.GDT 18/6/21



Irish drilling LTD

DRILLHOLE LOG

| | | | | | | | |
|--|--|--------------------------------------|---|---------------------|--|--|--|
| Project Ballinagree Wind Farm | | | | Location Co Cork | | DRILLHOLE No RC02 | |
| Job No 2021C101 | Date 06-05-21 07-05-21 | Ground Level (m OD) 451.68 | Co-Ordinates () E 533,542.9 N 584,539.0 | | | | |
| Engineer Fehily Timoney & Co | | | | | | Sheet 2 of 2 Rev. 1 | |

| RUN DETAILS | | | | | STRATA | | | Geology | Instrument/ Backfill | |
|---------------|---------------------|------------------------------|-----------------|--------|---------------------------|---|--------|---------|-------------------------|--|
| Depth Date | TCR (SCR) RQD | (SPT) Fracture Spacing | Red'cd Level | Legend | Depth (Thick- ness) | DESCRIPTION | | | | |
| | | | | | | Discontinuities | Detail | Main | | |
| 12.50 | 67 (-) - | NA | 439.48 | x | 12.20 | | | | | |
| | | | 439.18 | x | 12.50 | Dark orangish brown SILT. | | | | |
| 14.00 | 27 (-) - | | | . | (2.50) | Orangish brown slightly silty fine and medium SAND. | | | | |
| 15.00 | 80 (-) - | | 436.68 | . | 15.00 | BH terminated at 15.00m bgl on REs instruction. | | | | |

| Drilling Progress and Water Observations | | | | | | | | Rotary Flush | | | | GENERAL REMARKS |
|--|-------|-------|-------|---------------|----------------|-----------------|-------------------|--------------|--------|------|------------|---|
| Date | Time | Depth | Depth | Casing Dia | Core Dia mm | Water Strike | Water Standing | From (m) | To (m) | Type | Return (%) | |
| 07-05-21 | 12.00 | 15.00 | 3.00 | 99 | 63 | | | | | | | 10 litres polydrill used. 50mm standpipe installed. Response zone 3.00m to 15.00m bgl. |

| | | | | | | | |
|---|-----------------|-----------------------|--------|---------------|----------|---------------|------------------|
| All dimensions in metres Scale 1:68.75 | Client: Coillte | Method/ Plant Used | Hydreq | Bit Design | HQ DK | Driller DK | Logged By EAT |
|---|-----------------|-----------------------|--------|---------------|----------|---------------|------------------|

IDL AGS UK DH (SPTS) BALLINAGREE WF RC FILE 1 MAY 28 2021.GPJ IDL TP TEMPLATE.GDT 18/6/21



Irish drilling LTD

DRILLHOLE LOG

| | | | | | | |
|--|------------------------------|-------------------------------|--|---------------------|--------------------------------------|--|
| Project Ballinagree Wind Farm | | | | Location Co Cork | | DRILLHOLE No RC03 |
| Job No 2021C101 | Date 11-05-21 12-05-21 | Ground Level (m OD) 458.80 | Co-Ordinates () E 533,670.6 N 585,235.0 | | | |
| Engineer Fehily Timoney & Co | | | | | Sheet 1 of 2 Rev. 1 | |

| RUN DETAILS | | | | | STRATA | | | Geology | Instrument/ Backfill |
|---------------|---------------------|------------------------------|-----------------|--------|---------------------------|---|---|---|-------------------------|
| Depth Date | TCR (SCR) RQD | (SPT) Fracture Spacing | Red'cd Level | Legend | Depth (Thick- ness) | DESCRIPTION | | | |
| | | | | | | Discontinuities | Detail | | |
| 0.00 | 50 (18) 0 | NA | 458.10 | | (0.70) 0.70 | 0.00 - 0.70 : overburden. | Subangular fine to medium reddish brown siltstone GRAVEL. | | |
| 1.60 | | | | | | 0.70 - 2.30 Non-intact as weathered rock. | Weathered SILTSTONE rock. Recovered as angular fine to coarse gravel sized clasts of medium strong thinly laminated reddish brown fine grained SILTSTONE. | | |
| 2.30 | 100 (15) 0 | NI | 456.50 | | (1.60) 2.30 | 2.30 - 15.00 Discontinuities, very closely spaced, locally medium and closely spaced, dipping 12 to 14°, stepped, smooth, with 0.5 to 2mm thick light pinkish brown silt smear. | Strong locally very strong thinly bedded bluish grey slightly sandy fine and medium grained SILTSTONE. | | |
| 3.90 | 100 (85) 39 | | | | | | 7 | 6.00m to 15.00m : Drillers comment - slow progress. | |
| 5.00 | 100 (91) 47 | 15 | | | | | | | |
| 6.50 | 100 (67) 18 | 13 | | | | | | | |
| 8.00 | 100 (91) 21 | 20 | | | | | | | |
| 9.50 | 100 (82) 61 | 5 | | | | | | | |
| 11.00 | 100 (96) 47 | 7 | | | | | | | |
| 11.05 | 11.00 | 12 | | | | 7.80 - 8.25 Joint, subvertical dip, planar, smooth, with light orangish brown and dark orangish brown iron stain and powder, open. | | | |

IDL AGS UK DH (SPTS) BALLINAGREE WF RC FILE 1 MAY 28 2021.GPJ IDL TP TEMPLATE.GDT 18/6/21

| Drilling Progress and Water Observations | | | | | | | | Rotary Flush | | | | GENERAL REMARKS |
|--|-------|-------|-----------------|---------------|----------------|-----------------|-------------------|--------------|--------|-------|------------|--------------------|
| Date | Time | Depth | Casing Depth | Casing Dia | Core Dia mm | Water Strike | Water Standing | From (m) | To (m) | Type | Return (%) | |
| 11-05-21 | 17.00 | 11.00 | | 99 | 63 | | | 0 | 15.00 | water | 100 | |
| 12-05-21 | 08.00 | 11.00 | | 99 | 63 | | | | | | | |

| | | | | | |
|---|-----------------|---------------------------------|---------------------------|---------------|------------------|
| All dimensions in metres Scale 1:68.75 | Client: Coillte | Method/ Plant Used Hydreq | Bit Design HQ DK | Driller DK | Logged By EAT |
|---|-----------------|---------------------------------|---------------------------|---------------|------------------|



DRILLHOLE LOG

| | | | | | | |
|--|--|--------------------------------------|---|---------------------|--------------------------------------|--|
| Project Ballinagree Wind Farm | | | | Location Co Cork | | DRILLHOLE No RC04 |
| Job No 2021C101 | Date 05-05-21 06-05-21 | Ground Level (m OD) 420.01 | Co-Ordinates () E 537,944.7 N 586,373.4 | | | |
| Engineer Fehily Timoney & Co | | | | | Sheet 1 of 2 Rev. 1 | |

| RUN DETAILS | | | | | STRATA | | | Geology | Instrument/ Backfill | |
|---------------|---------------------|------------------------------|-----------------|--------|---------------------------|--|--------|--|-------------------------|--|
| Depth Date | TCR (SCR) RQD | (SPT) Fracture Spacing | Red'cd Level | Legend | Depth (Thick- ness) | DESCRIPTION | | | | |
| | | | | | | Discontinuities | Detail | Main | | |
| 0.00 | 25 (-) | NA | 419.91 | | 0.10 | 0.00 - 3.90 : overburden. | | Dark brown amorphous PEAT. Subrounded to subangular fine to coarse green siltstone and reddish brown sandstone GRAVEL with a little dark orangish brown silt. | | |
| 2.00 | 73 (-) | | 3.90 | | | | | | | |
| 3.50 | 80 (17) 0 | NI | 416.11 | | 0.80 | 3.90 - 4.70 Non-intact as probable weathered rock. | | Probable weathered SILTSTONE rock. Recovered as angular fine to coarse gravel sized clasts of medium strong and weak dark greyish green fine grained SILTSTONE. | | |
| 5.00 | 7 | | 4.70 | | | | | | | |
| 6.50 | 100 (81) 22 | 10 | 415.31 | | (10.30) | 4.70 - 15.00 Discontinuities, closely and very closely spaced, locally medium spaced, dipping 76 to 78 and 18 to 20°, stepped, smooth, with 0.5 to 1mm thick reddish brown silt smear. | | Strong locally very strong thinly bedded greenish grey slightly sandy fine grained SILTSTONE. | | |
| 8.00 | 100 (88) 34 | | | | | | | | | |
| 9.50 | 100 (57) 16 | 8 | | | | | | | | |
| 11.00 | 100 (93) 87 | | | | | | | | | |
| 11.00 | 2 | | | | | | | | | |

IDL AGS UK DH (SPTS) BALLINAGREE WF RC FILE 1 MAY 28 2021.GPJ IDL TP TEMPLATE.GDT 18/6/21

| Drilling Progress and Water Observations | | | | | | | | Rotary Flush | | | | GENERAL REMARKS |
|--|-------|-------|--------------|------------|-------------|--------------|----------------|--------------|--------|-------|------------|--|
| Date | Time | Depth | Casing Depth | Casing Dia | Core Dia mm | Water Strike | Water Standing | From (m) | To (m) | Type | Return (%) | |
| 05-05-21 | 17.00 | 11.00 | 2.50 | 99 | 63 | | | 0 | 15.00 | water | <100 | 50mm standpipe installed. Response zone 3.00m to 15.00m bgl. |
| 06-05-21 | 08.00 | 11.00 | 2.50 | 99 | 63 | | | | | | | |

| | | | | | |
|---|-----------------|--|------------------|---------------|-------------------------|
| All dimensions in metres Scale 1:68.75 | Client: Coillte | Method/ Plant Used Hydreq | Bit Design HQ | Driller DK | Logged By EAT |
|---|-----------------|--|------------------|---------------|-------------------------|



DRILLHOLE LOG

| | | | | | | |
|--|------------------------------|-------------------------------|--|---------------------|--------------------------------------|--|
| Project Ballinagree Wind Farm | | | | Location Co Cork | | DRILLHOLE No RC05 |
| Job No 2021C101 | Date 13-05-21 14-05-21 | Ground Level (m OD) 324.56 | Co-Ordinates () E 536,518.2 N 583,047.0 | | | |
| Engineer Fehily Timoney & Co | | | | | Sheet 1 of 2 Rev. 1 | |

| RUN DETAILS | | | | | STRATA | | | Geology | Instrument/ Backfill | |
|---------------|---------------------|------------------------------|-----------------|--------|---------------------------|---|--------|---------|-------------------------|------|
| Depth Date | TCR (SCR) RQD | (SPT) Fracture Spacing | Red'cd Level | Legend | Depth (Thick- ness) | DESCRIPTION | | | | |
| | | | | | | Discontinuities | Detail | | | Main |
| 0.00 | 50 (-) | NA | | | (5.00) | 0.00 - 5.00 : overburden. | | | | |
| 2.00 | 53 (-) | | | | | Very stiff light orangish brown sandy gravelly SILT with cobbles. Sand is fine to coarse. Gravel is subangular fine to coarse of brown and grey sandstone. Cobbles are of brown and grey sandstone. | | | | |
| 3.50 | 80 (-) | | | | | | | | | |
| 5.00 | | | 319.56 | | 5.00 | 5.00 - 15.10 Discontinuities, very closely spaced, locally medium and closely spaced, dipping 18 to 20 and 82 to 84°, stepped, smooth, with 0.5 to 2mm thick pinkish brown silt smear and minor dark orangish brown iron stain. | | | | |
| 6.50 | 100 (85) 7 | 12 | | | | Strong thinly laminated light grey fine and medium grained SILTSTONE. | | | | |
| | | 3 | | | | | | | | |
| 8.00 | 100 (91) 50 | 5 | | | | | | | | |
| 9.50 | 100 (86) 43 | 8 | | | | | | | | |
| 11.00 | 100 (75) 47 | 6 | | | (10.10) | | | | | |
| | | 11 | | | | | | | | |

IDL AGS UK DH (SPTS) BALLINAGREE WF RC FILE 1 MAY 28 2021.GPJ IDL TP TEMPLATE.GDT 18/6/21

| Drilling Progress and Water Observations | | | | | | | | Rotary Flush | | | | GENERAL REMARKS |
|--|------|-------|-----------------|---------------|----------------|-----------------|-------------------|--------------|--------|-------|------------|--------------------|
| Date | Time | Depth | Casing Depth | Casing Dia | Core Dia mm | Water Strike | Water Standing | From (m) | To (m) | Type | Return (%) | |
| | | | | | | | | 0 | 15.10 | water | 100 | |

| | | | | | |
|---|-----------------|---------------------------------|---------------------------|---------------|------------------|
| All dimensions in metres Scale 1:68.75 | Client: Coillte | Method/ Plant Used Hydreq | Bit Design HQ DK | Driller DK | Logged By EAT |
|---|-----------------|---------------------------------|---------------------------|---------------|------------------|

Appendix 02 Trial Pit Records

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-01 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 534,469.3 N 584,030.7 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 322.11m O.D. | | DATE: 10.3.21 |

| | | | |
|-------------------------|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 180-360 | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: dry | PIT DIMENSION: 1.20 * 4.00m | | |
| 2nd: dry | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | TOPSOIL: Grass over firm brown silty peaty SILT. |
| | | | B | 0.50-1.00 | | | 321.61 | 0.50 | Light brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with high cobble content. Cobbles are subangular to subrounded of siltstone. |
| 1 | | | B | 2.00-2.50 | | | | | 1.50m: damp clayey with low boulder content. Boulders are of siltstone. Boulders are <1000mm in diameter. |
| 2 | | | B | 3.00-3.50 | | | | | |
| 3 | | | B | 4.00-4.20 | | | | | 4.00m: hard digging. |
| 4 | | | | | | END | 317.81 | 4.30 | TP terminated at 4.30m bgl. |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-02 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 534,613.6 N 583,603.8 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 314.20m O.D. | | DATE: 10.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 180-360 | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: 2.60m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | Plastic wet brown amorphous PEAT. H8. |
| | | | D | 0.50-0.60 | | | 313.40 | 0.80 | |
| 1 | | | B | 1.00-1.50 | | | | | Firm bluish grey sandy gravelly SILT with high cobble content. Gravel is subangular to subrounded fine to coarse of siltstone. Cobbles are subangular to subrounded of siltstone. |
| 2 | | | | | | | 311.70 | 2.50 | |
| | | | B | 2.50-2.70 | | | 311.50 | 2.70 | Firm to stiff orangish brown slightly gravelly silty CLAY with high cobble content and low boulder content. Boulders are of siltstone. |
| 3 | | | | | | END | | | TP terminated at 2.70m bgl. Obstruction as boulders. |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|---|-----------------------|
| Remarks: Ingress of water at 2.60m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-03 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,184.8 N 583,481.4 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 292.63m O.D. | | DATE: 8.3.21 |

| | | | | |
|--------------------|----------------|---|--|--|
| GROUNDWATER | | PIT DIRECTION: 340-160 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: | Rose to after: | | | |
| 1st: dry | | | | |
| 2nd: | | | | |
| 3rd: | | | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|--|
| 0 | | | | | | | | | Grass over spongy moist dark brown pseudo fibrous PEAT. H7. |
| | | | D | 0.50-0.60 | | | 291.83 | 0.80 | |
| 1 | | | B | 1.00-1.30 | | | 291.33 | 1.30 | Weathered SILTSTONE rock. Recovered as orangish brown sandy gravelly silt as residual siltstone rock. |
| 2 | | | B | 2.00-3.00 | | | | | Weathered SILTSTONE rock. Recovered as angular to subangular gravel cobble and boulder sized clasts of siltstone with orangish brown silty sandy gravel matrix. |
| 3 | | | | | | | | | |
| 4 | | | | | | | 288.13 | 4.50 | |
| | | | | | | END | | | TP terminated at 4.50m bgl. Obstruction as possible boulder sized clasts or intact rock. |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLL.GDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-04 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,510.0 N 583,150.2 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 362.79m O.D. | | DATE: 8.3.21 |

| | | | |
|--|----------------|---|---|
| GROUNDWATER | | PIT DIRECTION: 020-200 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: dry 2nd: 3rd: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | 362.69 | 0.10 | Plastic damp dark brown amorphous PEAT. H8. |
| 1 | | | B | 1.00-1.40 | | | 361.39 | 1.40 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of grey and brown siltstone with soft brown sandy clay matrix. |
| | | | | | | END | | | 1.00m: damp and hard digging. |
| | | | | | | | | | TP terminated at 1.40m bgl. |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-05 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,007.9 N 582,795.3 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 319.05m O.D. | | DATE: 8.3.21 |

| | | | |
|--------------------|----------------|---|--|
| GROUNDWATER | | PIT DIRECTION: 180-360 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | MADE GROUND: Soft to firm orangish brown sandy gravelly CLAY with much soft dark brown peat with roots and branches. |
| 1 | | | B | 1.00-2.00 | | | | | |
| 2 | | | | | | | 316.95 | 2.10 | Weathered SILTSTONE rock. Recovered as angular cobble sized clasts of weak siltstone with brown silty gravel and sand matrix. |
| 3 | | | B | 3.00-3.50 | | | | | 3.00m: hard digging. |
| 4 | | | | | | END | 315.45 | 3.60 | TP terminated at 3.60m bgl. Unable to progress TP - sidewall collapse. |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-06 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,370.9 N 582,607.7 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 298.35m O.D. | | DATE: 15.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: 180-360 | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|--|
| 0 | | | D | 0.20-0.30 | | | 298.05 | 0.30 | Plastic dark brown sandy gravelly amorphous PEAT with medium cobble content and low boulder content. H8. |
| | | | B | 0.50 | | | | | Orangish brown silty sandy angular to subrounded fine to coarse sandstone and siltstone GRAVEL with medium cobble content. Cobbles are angular to subrounded of sandstone and siltstone. |
| 1 | | | B | 1.00-1.50 | | | | | 1.00m: with low boulder content. Boulders are of sandstone and siltstone. Boulders are <500mm in diameter. 1.50m: with high boulder content. Boulders are angular of siltstone. Hard digging. |
| 2 | | | B | 2.50-3.00 | | | | | |
| 3 | | | | | | END | 295.35 | 3.00 | TP terminated at 3.00m bgl. Obstruction as siltstone rock. |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-07 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,749.8 N 583,186.8 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 311.75m O.D. | | DATE: 15.3.21 |

| | | | | |
|--------------------|----------------|---|--|---|
| GROUNDWATER | | PIT DIRECTION: 180-360 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: | Rose to after: | | | |
| 1st: dry | | | | |
| 2nd: | | | | |
| 3rd: | | | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | TOPSOIL: Grass over firm dark grey silty sandy gravelly SILT. |
| | | | | | | | 311.55 | 0.20 | Orangish brown mottled dark grey peaty silty sandy GRAVEL with low cobble content. |
| | | | B | 0.50-1.00 | | | 311.15 | 0.60 | Light brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with high cobble content. Cobbles are angular to subrounded of siltstone. |
| 1 | | | B | 1.00-1.50 | | | | | |
| | | | B | 2.00-2.50 | | | | | 2.00m: with low boulder content. Boulders are of siltstone. Boulders are <1000mm in diameter. |
| 2 | | | B | 2.50-2.90 | | | 309.25 | 2.50 | Weathered SILTSTONE rock. |
| | | | | | | | 308.85 | 2.90 | Recovered as angular cobble and boulder sized clasts of strong grey siltstone with sandy silty matrix. |
| 3 | | | | | | END | | | TP terminated at 2.90m bgl. Obstruction as rock. |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-08 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,168.6 N 583,300.5 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 323.14m O.D. | | DATE: 16.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: 180-360 | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|--|
| 0 | | | | | | | | | TOPSOIL: Grass over sandy gravelly peaty CLAY with low cobble content. |
| | | | | 0.50-0.60 | | | 322.84 | 0.30 | Orangish brown silty sandy angular to subangular fine to coarse siltstone GRAVEL with medium cobble content and low boulder content. Cobbles are angular to subangular of siltstone. Boulders are angular to subangular of siltstone. Boulders are <400mm in diameter. |
| | | | B | 1.00-1.50 | | | 322.34 | 0.80 | Light brown mottled black silty sandy angular to subangular fine to coarse siltstone GRAVEL with high cobble content and low boulder content. Cobbles are angular to subangular of siltstone. Boulders are subangular to subrounded of siltstone. |
| 1 | | | | 2.00-2.50 | | | | | 1.50m: black mottling absent with high boulder content. Cobbles are angular. Boulders are angular. |
| | | | B | 2.50-3.00 | | | 320.64 | 2.50 | |
| 2 | | | | | | | | | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of strong grey siltstone with some silty sandy gravel. Boulders are <400mm in diameter. |
| 3 | | | | | | END | 320.04 | 3.10 | TP terminated at 3.10m bgl. Obstruction as siltstone rock. |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-10 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,842.1 N 583,687.7 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 252.79m O.D. | | DATE: 9.3.21 |

| | | | |
|--------------------|----------------|---|--|
| GROUNDWATER | | PIT DIRECTION: 045-225 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: | Rose to after: | | |
| 1st: dry | | | |
| 2nd: | | | |
| 3rd: | | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | 252.69 | 0.10 | TOPSOIL: Grass over soft gravelly CLAY with rootlets. |
| | | | B | 0.50-1.00 | | | | | Firm orangish brown sandy gravelly SILT with low cobble content. Gravel is subangular to subrounded fine to coarse of siltstone. Cobbles are subangular to subrounded of siltstone and sandstone. |
| 1 | | | | | | | 251.79 | 1.00 | Light brown silty sandy GRAVEL with high cobble content and low boulder content. Cobbles are subangular to subrounded of siltstone. Boulders are subangular to subrounded of siltstone. Boulders are <1000mm in diameter. |
| | | | B | 1.50-2.00 | | | | | |
| 2 | | | | | | | 250.09 | 2.70 | Very stiff orangish brown sandy gravelly CLAY with medium cobble content and medium boulder content. Gravel is subangular to subrounded fine to coarse of various lithologies. Cobbles are subangular to subrounded of various lithologies. Boulders are subangular to subrounded. |
| | | | B | 3.00-3.50 | | | | | |
| 3 | | | | | | | 248.79 | 4.00 | Light brown gravelly fine SAND with medium cobble content and low boulder content. Boulders are subangular of sandstone. |
| | | | B | 4.00-4.50 | | | | | |
| 4 | | | | | | | 247.99 | 4.80 | TP terminated at 4.80m bgl. Obstruction as possible rock. |
| 5 | | | | | | END | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-11 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,177.4 N 584,287.5 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 263.58m O.D. | | DATE: 12.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 180-360 | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: 1.00m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | 263.38 | 0.20 | TOPSOIL: Soft dark brown peaty SILT with high cobble content. |
| 1 | | | B | 0.50-1.00 | | | | | Stiff light brown sandy gravelly SILT with medium cobble content. Gravel is subangular to subrounded fine to coarse siltstone. Cobbles are subangular to subrounded of siltstone. |
| 2 | | | B | 1.50-2.00 | | | 262.18 | 1.40 | Light brown clayey silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with medium cobble content and low boulder content. Cobbles are subangular to subrounded of siltstone. Boulders are of siltstone. Boulders are <400mm in diameter. |
| 3 | | | B | 3.00-3.60 | | | | | 2.00m: with high boulder content. Boulders are angular of siltstone. |
| 4 | | | | | | END | 259.98 | 3.60 | TP terminated at 3.60m bgl. Unable to progress TP - sidewall collapse. |

| | |
|---|-----------------------|
| Remarks: Seepage of water at 1.00m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-12 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,308.9 N 584,244.1 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 290.91m O.D. | | DATE: 12.3.21 |

| | | | |
|----------------------------|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: 180-360 | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry | PIT DIMENSION: 1.20 * 4.00m | | |
| 2nd: 3rd: | ROSE to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|---|
| 0 | | | | | | | | | Plastic dark grey amorphous PEAT. H8. |
| | | | D | 0.20-0.30 | | | 290.61 | 0.30 | |
| | | | B | 0.50-1.00 | | | 290.11 | 0.80 | Orangish brown silty gravelly SAND. |
| 1 | | | B | 1.00-1.50 | | | | | Light brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with high cobble content. Cobbles are subangular to subrounded of siltstone. |
| 2 | | | B | 2.00-2.50 | | | | | 1.50m: with high boulder content. Boulders are angular to subangular of siltstone. Boulders are <1000mm in diameter. Hard digging. |
| 3 | | | | | | | | | |
| 4 | | | B | 4.00-4.50 | | | | | |
| | | | | | | | 286.31 | 4.60 | |
| | | | | | | END | | | TP terminated at 4.60m bgl. |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-13 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,226.0 N 584,685.7 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 317.42m O.D. | | DATE: 11.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 010-190 | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: 2.00m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | D | 0.10-0.20 | | | 317.22 | 0.20 | TOPSOIL: Grass over dark brown peaty gravelly SILT. |
| | | | B | 0.50-1.00 | | | | | Brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with medium cobble content. Cobbles are subangular to subrounded of siltstone. |
| 1 | | | B | 1.60-2.00 | | | 315.82 | 1.60 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of strong siltstone with brown silty sandy gravel matrix. |
| 2 | | ↓ | | | | | 314.62 | 2.80 | TP terminated at 2.80m bgl. Unable to progress TP - sidewall collapse and boulder sized clasts. |
| 3 | | | | | | END | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|---|-----------------------|
| Remarks: Seepage of water at 2.00m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-14 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,300.7 N 586,069.0 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 413.33m O.D. | | DATE: 16.3.21 |

| | | | |
|--|----------------|---|--|
| GROUNDWATER | | PIT DIRECTION: 140-320 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse from 3.00m bgl. |
| Water strikes: 1st: dry 2nd: 3rd: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | Grass over plastic dark brown amorphous PEAT. H8. |
| | | | D | 0.20-0.30 | | | 413.03 | 0.30 | |
| | | | B | 0.50-1.00 | | | | | Orangish brown becoming light brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with medium cobble content and low boulder content. Cobbles are subangular to subrounded of siltstone. Boulders are <800mm in diameter. |
| 1 | | | | | | | | | |
| | | | B | 1.50-2.00 | | | | | |
| 2 | | | | | | | 411.03 | 2.30 | |
| | | | B | 2.50-3.00 | | | | | Stiff light brown slightly sandy gravelly CLAY with low cobble content and low boulder content. Gravel is subangular to subrounded fine to coarse of siltstone. Boulders are of siltstone. |
| 3 | | | | | | | | | |
| | | | B | 4.00-4.50 | | | 408.83 | 4.50 | |
| 4 | | | | | | | | | |
| | | | | | | END | | | TP terminated at 4.50m bgl. Obstruction. |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-15 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,701.7 N 586,667.7 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 430.26m O.D. | | DATE: 18.3.21 |

| | | | |
|--|----------------|---|--|
| GROUNDWATER | | PIT DIRECTION: 020-200 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | Spongy dark brown silty pseudo fibrous PEAT. H7. |
| | | | D | 0.50-0.60 | | | | | |
| 1 | | | B | 1.00-2.00 | | | 429.26 | 1.00 | Light brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with medium cobble content. Cobbles are subangular to subrounded of siltstone. |
| 2 | | | B | 2.00-3.00 | | | | | 2.50m: with high boulder content. |
| 3 | | | | | | | | | |
| 4 | | | B | 4.00-4.50 | | | 426.46 | 3.80 | Weathered MUDSTONE rock. Recovered as angular cobble and boulder sized clasts of medium strong to strong light brown mudstone with sandy gravel matrix. |
| | | | | | | | 425.76 | 4.50 | |
| | | | | | | END | | | TP terminated at 4.50m bgl. Obstruction as rock. |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-16 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 537,278.9 N 586,509.5 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 471.77m O.D. | | DATE: 18.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: 180-360 | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

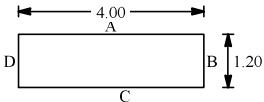
| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | D | 0.20-0.30 | | | | | Plastic dark brown amorphous PEAT. H8. |
| | | | B | 0.50-1.00 | | | 471.27 | 0.50 | Firm light grey sandy gravelly SILT with high cobble content. Gravel is angular to subangular fine to coarse of siltstone. Cobbles are angular to subangular of siltstone. |
| 1 | | | B | 1.50-2.00 | | | 470.67 | 1.10 | Light grey and purple silty peaty sandy angular to subangular fine to coarse purple siltstone GRAVEL with high cobble content. Cobbles are angular to subangular of purple siltstone. |
| 2 | | | | | | | 469.67 | 2.10 | 2.00m: hard digging. |
| | | | | | | END | | | TP terminated at 2.10m bgl. Obstruction. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

PROJECT: Ballinagree Wind Farm
LOCATION: Co Cork
CLIENT: Coillte
ENGINEER: Fehily Timoney & Co
Co-ordinates: E 537,464.8 N 586,081.3
TRIALPIT: T-17
Sheet 1 of 1
Rig: Hyundai HX140L
Rev: DRAFT
Ground level: 443.86m O.D.
DATE: 22.3.21

GROUNDWATER
 Water strikes: 1st: dry 2nd: 3rd:
 Rose to after:
PIT DIRECTION: 090-270
PIT DIMENSION: 1.20 * 4.00m
LOGGED BY: AG
 Shoring/Support: N/A
 Stability: Pit moderately stable.



| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | Firm black pseudo fibrous PEAT. |
| | | | | 0.50-1.00 | | | 443.56 | 0.30 | Dark brown silty peaty sandy subangular to angular fine to coarse siltstone GRAVEL with high cobble content and medium boulder content. Cobbles are angular of siltstone. Boulders are angular of siltstone. |
| 1 | | | B | | | | 442.86 | 1.00 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of strong purple siltstone with sandy gravelly silt matrix. |
| | | | B | 1.50-1.70 | | | 442.16 | 1.70 | TP terminated at 1.70m bgl. Obstruction as siltstone rock. |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

Remarks: TP dry on excavation. TP backfilled with arisings.
Scale: 1:25

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-18 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 537,119.6 N 585,649.1 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 382.92m O.D. | | DATE: 22.3.21 |

| | | | |
|----------------------------|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: 090-270 | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry | PIT DIMENSION: 1.20 * 4.00m | | |
| 2nd: 3rd: | ROSE TO AFTER: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | Plastic dark brown amorphous PEAT. H8. |
| | | | D | 0.50-0.60 | | | 382.32 | 0.60 | |
| 1 | | | B | 1.00 | | | 381.72 | 1.20 | Brown silty sandy peaty subangular to subrounded fine to coarse siltstone GRAVEL with high cobble content and low boulder content. Cobbles are subangular to subrounded of siltstone. Boulders are angular of siltstone. Boulders are <400mm in diameter. |
| 2 | | | B | 1.50-2.00 | | | 380.92 | 2.00 | Grey silty sandy angular to subrounded fine to coarse siltstone GRAVEL with high cobble content and low boulder content. Cobbles are angular of siltstone. Boulders are angular of siltstone. Boulders are <400mm in diameter. |
| | | | | | | | 380.42 | 2.50 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of siltstone with some silty sand. |
| | | | | | | END | | | TP terminated at 2.50m bgl. Obstruction as siltstone rock. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-19 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 538,387.6 N 586,604.2 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 406.91m O.D. | | DATE: 22.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 090-270 | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: 0.00m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | ↓ | | | | | | | Plastic dark brown amorphous PEAT. H8. |
| 1 | | | D | 1.00-1.10 | | | | | |
| 2 | | | B | 2.00-2.50 | | | 404.91 | 2.00 | Soft to firm grey sandy gravelly SILT with high cobble content. Gravel is subangular to subrounded fine to coarse of siltstone. Cobbles are subangular to subrounded of siltstone. |
| 3 | | | B | 3.00-3.50 | | | 404.11 | 2.80 | Orangish brown silty sandy subangular to subrounded fine to coarse siltstone and sandstone GRAVEL with high cobble content. Cobbles are subangular to subrounded of siltstone and sandstone . |
| 4 | | | B | 4.00-4.30 | | | 402.61 | 4.30 | |
| | | | | | | END | | | TP terminated at 4.30m bgl. Unable to progress TP - sidewall collapse. |

| | |
|--|-----------------------|
| Remarks: Seepage of water from g/l to 2.00m bgl. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-20A |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 537,752.8 N 586,154.8 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 442.49m O.D. | | DATE: 22.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 300-120 | | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: 0.50m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|---|
| 0 | | | | | | | | | Spongy brown pseudo fibrous PEAT. |
| | | | D | 0.20-0.30 | | | 442.09 | 0.40 | |
| | | | B | 0.50-1.00 | | | | | Grey silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with high cobble content and low boulder content. Cobbles are subangular to subrounded of siltstone. Boulders are angular of siltstone. |
| 1 | | | | | | | | | |
| | | | B | 1.50-2.00 | | | 441.09 | 1.40 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of strong purple siltstone with grey silty gravelly sandy matrix. |
| 2 | | | | | | END | 440.49 | 2.00 | TP terminated at 2.00m bgl. Obstruction as siltstone rock. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: Seepage of water from 0.50m to 2.00m bgl. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: T-21A |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,222.8 N 586,176.1 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 433.26m O.D. | | DATE: 22.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 180-360 | | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: 0.00m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | ↓ | | | | | | | Plastic dark brown amorphous PEAT. H8. |
| | | | D | 0.50-0.60 | | | 432.56 | 0.70 | |
| 1 | | | B | 1.00-1.30 | | | 431.96 | 1.30 | Soft grey sandy gravelly peaty SILT with high cobble content. Gravel is subangular to subrounded fine to coarse of siltstone. Cobbles are subangular to subrounded of siltstone. Boulders are <400mm in diameter. |
| 2 | | | B | 2.00-2.50 | | | | | Brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with high cobble content and low boulder content. Cobbles are subangular to subrounded of siltstone. Boulders are subangular of siltstone. |
| 3 | | | B | 3.00-3.50 | | | 429.76 | 3.50 | 3.00m: hard digging. |
| 4 | | | | | | END | | | TP terminated at 3.50m bgl. Obstruction as boulders. |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: Seepage of water from g/l to 1.30m bgl. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-01 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,968.8 N 586,172.2 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 447.20m O.D. | | DATE: 16.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 180-360 | | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: 0.50m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | |
| | | | D | 0.20-0.30 | | | 446.80 | 0.40 | Plastic dark brown amorphous PEAT. H8. |
| | | | B | 0.50-1.00 | | | | | Soft to firm grey mottled dark brown sandy gravelly peaty SILT with medium cobble content. Gravel is subangular to subrounded fine to coarse of siltstone. Cobbles are subangular to subrounded of siltstone. |
| 1 | | | | | | | 446.00 | 1.20 | |
| | | | B | 1.50-2.00 | | | | | Light orangish brown silty sandy angular to subangular fine to coarse siltstone GRAVEL with high cobble content and low boulder content. Cobbles are angular to subangular of siltstone. Boulders are subangular of siltstone. |
| 2 | | | | | | | 444.70 | 2.50 | |
| | | | | | | END | | | TP terminated at 2.50m bgl. Obstruction as boulders. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|---|-----------------------|
| Remarks: Seepage of water at 0.50m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-02 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,203.5 N 586,063.6 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 420.72m O.D. | | DATE: 16.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: 180-360 | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: 0.50m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | 420.52 | 0.20 | Soft dark brown silty PEAT. |
| | | | B | 0.50-1.00 | | | 419.92 | 0.80 | Soft grey sandy gravelly SILT with medium cobble content. Gravel is angular to subrounded fine to coarse of siltstone. Cobbles are angular to subrounded of siltstone. |
| 1 | | | B | 1.00-1.50 | | | | | Orangish brown silty sandy angular to subrounded fine to coarse siltstone GRAVEL with high cobble content. Cobbles are angular to subrounded of siltstone. |
| 2 | | | B | 2.00-2.50 | | | | | 2.00m: with high boulder content. Boulders are angular. Boulders are <500mm in diameter. |
| 3 | | | | | | | | | |
| 4 | | | B | 4.00-4.50 | | | 416.22 | 4.50 | |
| | | | | | | END | | | TP terminated at 4.50m bgl on REs instruction. |
| 5 | | | | | | | | | |

| | |
|---|-----------------------|
| Remarks: Seepage of water at 0.50m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-03 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,820.2 N 586,612.3 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 432.73m O.D. | | DATE: 18.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 340-160 | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: 2.00m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | Spongy wet dark brown pseudo fibrous PEAT. H5. |
| | | | D | 0.50-0.60 | | | | | |
| 1 | | | | | | | | | |
| 2 | | | B | 2.00-2.50 | | | 430.73 | 2.00 | Orangish brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with medium cobble content. Cobbles are subangular to subrounded of siltstone. |
| | | | | | | | 430.23 | 2.50 | |
| | | | | | | END | | | TP terminated at 2.50m bgl. Unable to progress TP - sidewall collapse. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|---|-----------------------|
| Remarks: Ingress of water at 2.00m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-04 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 537,062.6 N 586,054.3 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 411.19m O.D. | | DATE: 22.3.21 |

| | | | |
|--|----------------|---|---|
| GROUNDWATER | | PIT DIRECTION: 090-270 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: dry 2nd: 3rd: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | 410.89 | 0.30 | Spongy dark brown pseudo fibrous PEAT. H7. |
| 0.50-1.00 | | | B | | | | | | Orangish brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with medium cobble content. Cobbles are subangular to subrounded of siltstone. |
| 1.50-2.00 | | | B | | | | | | 1.50m: with low boulder content. Boulders are subangular of siltstone. Boulders are <500mm in diameter. |
| 2 | | | | | | END | 409.19 | 2.00 | TP terminated at 2.00m bgl. Obstruction as possible boulders. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-05 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 537,059.4 N 585,712.9 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 383.79m O.D. | | DATE: 22.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 090-270 | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: 0.00m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | ↓ | | | | | 383.49 | 0.30 | Spongy dark brown pseudo fibrous PEAT. H7. |
| 0.50-1.00 | | | B | | | | | | Brown silty sandy peaty subangular to subrounded fine to coarse sandstone GRAVEL with medium cobble content. Cobbles are subangular to subrounded of sandstone. |
| 1.30-2.00 | | | B | | | | 382.49 | 1.30 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of strong brown siltstone with silty sandy gravelly matrix. |
| 2 | | | | | | END | 381.79 | 2.00 | TP terminated at 2.00m bgl. Unable to progress TP - sidewall collapse and hard digging. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: Seepage of water from g/l to 0.30m bgl. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-06 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 537,267.8 N 586,461.8 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 472.96m O.D. | | DATE: 18.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: 020-200 | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: 1.40m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|---|
| 0 | | | D | 0.20-0.30 | | | | | Plastic dark brown amorphous PEAT. H8. |
| | | | B | 0.50-1.00 | | | 472.46 | 0.50 | Light grey silty sandy angular fine to coarse siltstone GRAVEL with high cobble content and medium boulder content. |
| 1 | | | B | 1.10-1.50 | | | 471.86 | 1.10 | Weathered SILTSTONE rock. Recovered as angular boulder sized clasts of strong purple siltstone with a little sandy gravelly silt. |
| | | | | | | END | 471.46 | 1.50 | TP terminated at 1.50m bgl. Obstruction as rock. |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: Seepage of water from 1.40m to 1.50m bgl. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-07 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 537,555.8 N 586,095.0 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 444.54m O.D. | | DATE: 22.3.21 |

| | | | |
|--|----------------|---|--|
| GROUNDWATER | | PIT DIRECTION: 090-270 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | Rose to after: | | |

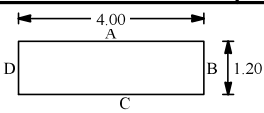
| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|--|
| 0 | | | | | | | 444.24 | 0.30 | Plastic dark brown amorphous PEAT. H8. |
| | | | B | 0.50-1.00 | | | | | Orangish brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with high cobble content and low boulder content. Cobbles are subangular to subrounded of siltstone. Boulders are subangular of siltstone. |
| 1 | | | | | | | 443.44 | 1.10 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of strong bluish grey siltstone with brown silty sand matrix. |
| | | | B | 1.50-2.00 | | | | | |
| 2 | | | | | | END | 442.14 | 2.40 | TP terminated at 2.40m bgl. Obstruction as rock. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

PROJECT: Ballinagree Wind Farm
LOCATION: Co Cork
CLIENT: Coillte
ENGINEER: Fehily Timoney & Co
Co-ordinates: E 537,563.1 N 586,197.1
TRIALPIT: TP-08
Sheet 1 of 1
Rig: Hyundai HX140L
Rev: DRAFT

Ground level: 464.45m O.D.
GROUNDWATER
 Water strikes: 1st: dry 2nd: 3rd:
 Rose to after:
PIT DIRECTION: 045-225
PIT DIMENSION: 1.20 * 4.00m
LOGGED BY: AG
 Shoring/Support: N/A
 Stability: Pit moderately stable.



| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | D | 0.20-0.30 | | | | | Plastic dark brown amorphous PEAT. H8. |
| | | | B | 0.50-1.50 | | | 463.95 | 0.50 | Weathered SANDSTONE rock. Recovered as angular cobble and boulder sized clasts of strong greyish brown fine grained sandstone with silty peat matrix. |
| 1 | | | B | 1.50-2.00 | | | 462.95 | 1.50 | Weathered SANDSTONE rock. Recovered as angular cobble and boulder sized clasts of strong light brown and grey fine grained sandstone with brown sandy silt matrix. |
| 2 | | | | | | END | 462.45 | 2.00 | TP terminated at 2.00m bgl. Obstruction as rock. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

Remarks: TP dry on excavation. TP backfilled with arisings.
Scale: 1:25

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-09 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 538,173.4 N 586,397.8 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 403.12m O.D. | | DATE: 19.3.21 |

| | | | | |
|--|----------------|---|--|--|
| GROUNDWATER | | PIT DIRECTION: 180-360 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: 1.50m 2nd: 3rd: | Rose to after: | | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | Spongy dark brown pseudo fibrous PEAT. H5. |
| 1 | | | D | 1.00-1.10 | | | | | |
| 2 | | | B | 2.00-2.50 | | | 401.32 | 1.80 | Firm to stiff grey sandy gravelly SILT with low cobble content and occasional rootlets. Gravel is subangular to subrounded fine to coarse of siltstone. Cobbles are subangular to subrounded of siltstone. |
| 3 | | | B | 3.00-3.50 | | | | | 3.00m: with medium cobble content. |
| 4 | | | B | 4.00-4.30 | | | 398.82 | 4.30 | |
| | | | | | | END | | | TP terminated at 4.30m bgl. Maximum reach of excavator. |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: Seepage of water from 1.50m to 2.00m bgl. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-10 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 538,334.4 N 586,568.4 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 406.93m O.D. | | DATE: 19.3.21 |

| | | | |
|--|----------------|---|---|
| GROUNDWATER | | PIT DIRECTION: 045-225 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: 0.00m 2nd: 3rd: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | ↓ | | | | | | | Plastic dark brown amorphous PEAT. H9. |
| 1 | | | D | 1.00-1.30 | | | | | |
| 2 | | | | | | | | | |
| 3 | | | B | 3.00-3.50 | | | 404.23 | 2.70 | Grey silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with high cobble content. Cobbles are subangular to subrounded of siltstone. |
| 4 | | | | | | | 402.53 | 4.40 | 3.00m: with low boulder content. Boulders are subangular of siltstone. Boulders are <400mm in diameter. |
| 5 | | | | | | END | | | TP terminated at 4.40m bgl on REs instruction. |

| | |
|--|-----------------------|
| Remarks: Seepage of water from g/l to 2.70m bgl. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-11A |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,988.0 N 586,756.1 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 425.45m O.D. | | DATE: 22.3.21 |

| | | | | |
|--------------------|----------------|---|--|--|
| GROUNDWATER | | PIT DIRECTION: 045-225 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: | Rose to after: | | | |
| 1st: dry | | | | |
| 2nd: | | | | |
| 3rd: | | | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | MADE GROUND: Firm grey sandy gravelly CLAY with medium cobble content and low boulder content. |
| 1 | | | | | | | 424.45 | 1.00 | Spongy dark brown pseudo fibrous PEAT. H7. |
| 2 | | | D | 1.50-1.60 | | | 423.55 | 1.90 | |
| 2 | | | B | 2.00-2.30 | | | 423.15 | 2.30 | Grey silty sandy subangular to subrounded fine to coarse sandstone GRAVEL with low cobble content. Cobbles are subangular to subrounded of sandstone. |
| 3 | | | B | 3.00-3.40 | | | 422.05 | 3.40 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of strong purple and grey siltstone with silty gravelly sand matrix. |
| 4 | | | | | | END | | | TP terminated at 3.40m bgl. Obstruction as rock. |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRILL.GDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-12 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 539,009.0 N 586,731.0 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 398.35m O.D. | | DATE: 19.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 180-360 | | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: 0.50m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | ↓ | | | | | | | Spongy brown pseudo fibrous PEAT. H7. |
| 1 | | | D | 1.00-1.10 | | | | | |
| 2 | | | | | | | 396.15 | 2.20 | Very stiff grey sandy gravelly SILT with medium cobble content. Gravel is subangular to subrounded fine to coarse of siltstone. Cobbles are subangular to subrounded of siltstone. |
| 3 | | | B | 2.50-3.00 | | | 394.75 | 3.60 | Weathered SANDSTONE rock. Recovered as angular cobble and boulder sized clasts of strong brown fine grained sandstone with silty gravelly sandy matrix. |
| 4 | | | B | 4.00-4.30 | | | 394.05 | 4.30 | |
| | | | | | | END | | | TP terminated at 4.30m bgl. Maximum reach of excavator. |
| 5 | | | | | | | | | |

| | |
|---|-----------------------|
| Remarks: Seepage of water at 0.50m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-13 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 539,514.3 N 586,805.8 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 386.43m O.D. | | DATE: 19.3.21 |

| | | | | |
|--------------------|----------------|---|--|--|
| GROUNDWATER | | PIT DIRECTION: 010-190 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: | Rose to after: | | | |
| 1st: dry | | | | |
| 2nd: | | | | |
| 3rd: | | | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | Spongy dark brown pseudo fibrous PEAT. H7. |
| 1 | | | D | 1.00-1.10 | | | | | |
| 2 | | | | | | | 384.23 | 2.20 | Light brown silty sandy subangular to subrounded fine to coarse siltstone and sandstone GRAVEL with medium cobble content. Cobbles are subangular to subrounded of siltstone and sandstone. |
| 3 | | | B | 2.50-3.00 | | | | | 3.00m: with high cobble content and low boulder content. Boulders are subangular to subrounded. Boulders are <400mm in diameter. |
| 4 | | | B | 4.00-4.30 | | | 382.63 | 3.80 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of strong orangish brown siltstone with silty sand matrix. Boulders are <400mm in diameter. |
| 4 | | | | | | | 382.13 | 4.30 | |
| | | | | | | END | | | TP terminated at 4.30m bgl. Maximum reach of excavator. |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-14 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 533,448.8 N 585,310.6 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 514.96m O.D. | | DATE: 11.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | Reddish brown silty sandy angular to subrounded fine to coarse sandstone and siltstone GRAVEL with high cobble content. Cobbles are subangular to subrounded of sandstone and siltstone. |
| | | | B | 0.50-1.00 | | | | | |
| 1 | | | | | | | | | |
| | | | B | 2.20-2.50 | | | | | 2.00m: clayey with high boulder content. Boulders are angular. Boulders are <400mm in diameter. |
| 2 | | | | | | | 512.26 | 2.70 | |
| | | | | | | END | | | TP terminated at 2.70m bgl. Obstruction as possible rock. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: Ingress of surface water. TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-15 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 533,606.6 N 584,845.9 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 434.27m O.D. | | DATE: 11.3.21 |

| | | | |
|--|--|--|--|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: 0.30m 2nd: 3rd: | Rose to after: PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | Plastic damp dark grey slightly silty amorphous PEAT. H9. |
| | | ↓ | D | 0.20-0.30 | | | 433.97 | 0.30 | |
| | | | B | 0.50-1.00 | | | | | Reddish brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with low cobble content. Cobbles are subangular to subrounded of siltstone. |
| 1 | | | | | | | | | 1.50m: with medium cobble and low boulder content. Boulders are subangular. Boulders are <400mm in diameter. |
| 2 | | | B | 2.00-2.50 | | | | | 2.00m: with high boulder content. Boulders are <500mm in diameter. |
| | | | | | | END | 431.77 | 2.50 | TP terminated at 2.50m bgl. Obstruction as rock. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

Remarks: Slight seepage of water at 0.30m bgl. TP backfilled with arisings. **Scale:**
1:25

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-16 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 533,559.2 N 584,334.7 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 461.95m O.D. | | DATE: 10.3.21 |

| | | | |
|--|---|--|---|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: 3.00m 2nd: 3rd: | Rose to after: PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | Plastic dark grey silty amorphous PEAT with roots. H9. |
| | | | D | 0.20-0.30 | | | 461.65 | 0.30 | |
| | | | B | 1.00-1.50 | | | | | Brown silty sandy angular to subangular fine to coarse GRAVEL of various lithologies with low cobble content. Cobbles are subangular to subrounded of various lithologies. |
| 1 | | | | | | | | | 1.50m: with high cobble. |
| | | | B | 2.00-2.50 | | | 459.35 | 2.60 | |
| 2 | | | | | | | | | Purple silty sandy angular siltstone GRAVEL with high cobble content. |
| | | | B | 3.00-3.50 | | | | | 3.00m: brown. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| | | | | | | | 457.25 | 4.70 | |
| 5 | | | | | | END | | | TP terminated at 4.70m bgl. |

| | |
|---|-----------------------|
| Remarks: Seepage of water at 3.00m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-17 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 534,510.1 N 583,678.8 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 314.85m O.D. | | DATE: 10.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | TOPSOIL: Grass over peaty silty sandy CLAY. |
| | | | | 0.50-1.00 | | | 314.55 | 0.30 | Light brown silty sandy subangular to subrounded fine to coarse GRAVEL of various lithologies with high cobble content and low boulder content. Cobbles are angular to subangular of various lithologies. Boulders are of siltstone. Boulders are <1200mm in diameter. |
| 1 | | | B | | | | | | |
| | | | | 2.00-2.30 | | | 312.55 | 2.30 | TP terminated at 2.30m bgl. Unable to progress TP - sidewall collapse. |
| 2 | | | B | | | | | | |
| 3 | | | | | | END | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: Ingress of surface water. TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-18 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 534,442.4 N 583,869.3 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 317.14m O.D. | | DATE: 10.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | D | 0.20-0.30 | | | 316.84 | 0.30 | Plastic dark brown amorphous PEAT with rootlets. H8. |
| | | | B | 0.50-1.00 | | | | | Stiff greyish brown sandy gravelly CLAY with medium cobble content. gravel is subangular to subrounded of siltstone. Cobbles are subangular to subrounded of siltstone. |
| 1 | | | | | | | 315.84 | 1.30 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of siltstone with orangish brown silty gravelly sandy matrix. |
| 2 | | | B | 2.00-2.30 | | | 314.84 | 2.30 | |
| | | | | | | END | | | TP terminated at 2.30m bgl. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-19 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 534,489.8 N 584,122.2 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 320.32m O.D. | | DATE: 10.3.21 |

| | | | |
|----------------------------|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: dry | PIT DIMENSION: 1.20 * 4.00m | | |
| 2nd: 3rd: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | MADE GROUND: Brown silty sandy angular siltstone COBBLES with low boulder content. |
| 1 | | | B | 1.00-1.50 | | | 319.62 | 0.70 | Light brown silty sandy GRAVEL with high cobble content and low boulder content. Boulders are of siltstone. 1.00m: hard digging. |
| 2 | | | | | | END | 318.32 | 2.00 | TP terminated at 2.00m bgl. Obstruction. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-20 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 534,822.3 N 584,194.8 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 291.60m O.D. | | DATE: 9.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | MADE GROUND: Granular fill. Grey sandy GRAVEL with high cobble content. |
| | | | B | 0.50-1.00 | | | 290.90 | 0.70 | |
| 1 | | | B | 1.00-2.00 | | | | | Light brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with high cobble content. Cobbles are subangular to subrounded of siltstone. 1.00m: with high boulder content. Boulders are <500mm in diameter. Hard digging. |
| 2 | | | | | | END | 289.60 | 2.00 | TP terminated at 2.00m bgl. Obstruction as boulders. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-21 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,279.2 N 584,270.4 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 291.53m O.D. | | DATE: 12.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | Plastic dark brown amorphous PEAT. H9. |
| | | | D | 0.30-0.40 | | | 291.13 | 0.40 | Dark brown peaty GRAVEL with occasional roots. |
| | | | | | | | 290.83 | 0.70 | Light brown silty sandy angular to subangular fine to coarse siltstone GRAVEL with medium cobble content. Cobbles are angular to subangular of siltstone and sandstone. |
| 1 | | | B | 1.00-1.50 | | | | | 1.50m: with high boulder content. Boulders are subangular to angular of siltstone. Boulders are <500mm in diameter. Hard digging. |
| | | | B | 1.50-2.00 | | | | | |
| 2 | | | | | | | 289.33 | 2.20 | TP terminated at 2.20m bgl. Obstruction as boulders. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-22 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,151.4 N 584,709.7 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 318.94m O.D. | | DATE: 11.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | 318.74 | 0.20 | Plastic dark brown amorphous PEAT. H9. |
| 1 | | | B | 0.50-1.00 | | | 317.64 | 1.30 | Yellowish orangish brown silty sandy GRAVEL of various lithologies with high cobble content and low boulder content. Boulders are angular of siltstone. Boulders are <400mm in diameter. |
| 2 | | | B | 1.50-2.00 | | | 316.84 | 2.10 | Brown stained dark brown silty sandy angular fine to coarse siltstone GRAVEL with high cobble content and high boulder content. Cobbles are subangular to angular of siltstone. Boulders are subangular to angular of siltstone. |
| | | | | | | END | | | TP terminated at 2.10m bgl. Obstruction as possible rock. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-23 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,285.0 N 584,253.2 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 260.51m O.D. | | DATE: 11.1.00 |

| | | | |
|--|--|--|---|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: 1.00m 2nd: 3rd: | Rose to after: PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | TOPSOIL: Grass over soft dark brown peaty SILT. |
| | | | | 0.50-1.00 | | | 260.21 | 0.30 | Firm orangish brown sandy gravelly SILT with medium cobble content and low boulder content. Gravel is subangular to subrounded fine to coarse of siltstone. Cobbles are of siltstone. |
| 1 | | ↓ | B | 1.50-2.00 | | | | | 1.00m: with high boulder content. |
| 2 | | | B | 2.50-3.00 | | | | | |
| 3 | | | B | | | | | | |
| | | | | | | | 257.11 | 3.40 | TP terminated at 3.40m bgl. Unable to progress TP - sidewall collapse. |
| | | | | | | END | | | |

| | |
|---|-----------------------|
| Remarks: Seepage of water at 1.00m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-24 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,563.3 N 583,973.0 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 241.60m O.D. | | DATE: 12.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | 241.40 | 0.20 | TOPSOIL: Grass over soft greyish brown silty peaty CLAY. |
| | | | B | 0.50 | | | | | Soft to firm light brown sandy gravelly SILT with medium cobble content. Gravel is angular to subangular fine to coarse of siltstone. Cobbles are angular to subangular of siltstone. |
| | | | B | 1.50-2.00 | | | | | |
| | | | | | | | 239.20 | 2.40 | TP terminated at 2.40m bgl. Obstruction as boulders. |
| | | | | | | END | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-25 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,895.8 N 583,722.1 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 258.45m O.D. | | DATE: 9.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | D | 0.10-0.20 | | | 258.25 | 0.20 | Plastic dark brown amorphous PEAT with roots. H8. |
| 1 | | | | 1.50-2.00 | | | | | Light brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with medium cobble content and low boulder content. Cobbles are subangular to subrounded of siltstone. Boulders are <600mm in diameter. |
| 2 | | | B | 3.50-4.00 | | | | | 2.00m: with high cobble content and high boulder content. Boulders are <500mm in diameter. |
| 3 | | | | | | | | | |
| 4 | | | | | | | 254.15 | 4.30 | TP terminated at 4.30m bgl. Obstruction as boulders. |
| 5 | | | | | | END | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-26 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,732.2 N 583,708.8 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 262.10m O.D. | | DATE: 9.3.21 |

| | | | |
|--|----------------|---|---|
| GROUNDWATER | | PIT DIRECTION: PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: 1.00m 2nd: 2.00m 3rd: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | MADE GROUND: Soft to firm orangish brown sandy gravelly CLAY with much soft dark brown peat with roots and branches. |
| 1 | | 1 | B | 1.00 | | | 260.40 | 1.70 | Orangish brown silty sandy GRAVEL with medium cobble content and low boulder content. Boulders are subangular to subrounded of siltstone and sandstone. |
| 2 | | 2 | | | | | 259.60 | 2.50 | TP terminated at 2.50m bgl. Unable to progress TP - sidewall collapse. |
| 3 | | | | | | END | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: Seepage of water at 1.00m bgl. Ingress of water at 2.00m bgl. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-27 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,628.9 N 583,583.9 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 282.19m O.D. | | DATE: 9.3.21 |

| | | | |
|--------------------|----------------|---|---|
| GROUNDWATER | | PIT DIRECTION: 180-360 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: | Rose to after: | | |
| 1st: dry | | | |
| 2nd: | | | |
| 3rd: | | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | 0.50-1.00 | | | | | Weathered rock. Recovered as angular cobble and boulder sized clasts of strong grey and brown siltstone/sandstone with peaty sandy gravelly silt matrix. Boulders are <1500mm in diameter. |
| 1 | | | | | | END | 281.19 | 1.00 | TP terminated at 1.00m bgl. Obstruction as rock. |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-28A |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 538,763.6 N 586,720.2 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 401.06m O.D. | | DATE: 22.3.21 |

| | | | |
|--|----------------|---|---|
| GROUNDWATER | | PIT DIRECTION: 180-360 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: dry 2nd: 3rd: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|---|
| 0 | | | | | | | | | Spongy brown pseudo fibrous PEAT. H7. |
| 1 | | | D | 1.00-1.10 | | | | | |
| 2 | | | | 2.50-3.00 | | | 398.56 | 2.50 | Grey silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with medium cobble content. Cobbles are subangular to subrounded of siltstone. |
| 3 | | | | 3.50-4.10 | | | 397.56 | 3.50 | Weathered SANDSTONE rock. Recovered as angular cobble and boulder sized clasts of medium strong greenish brown fine grained sandstone with grey silty sandy matrix. |
| 4 | | | | | | END | 396.96 | 4.10 | TP terminated at 4.10m bgl. Maximum reach of excavator. |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-29 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,880.7 N 583,582.3 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 253.37m O.D. | | DATE: 9.3.21 |

| | | | |
|--|---|--|---|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: 1.50m 2nd: 3rd: | Rose to after: PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | 253.17 | 0.20 | TOPSOIL: Grass over soft sandy gravelly CLAY with rootlets. |
| | | | B | 0.50-1.00 | | | | | Orangish brown silty sandy GRAVEL with high cobble content and low boulder content. Boulders are subangular to subrounded of siltstone. |
| 1 | | | | | | | 252.17 | 1.20 | |
| | | ↓ | B | 2.00 | | | | | Stiff locally soft to firm orangish brown sandy gravelly SILT with high cobble content and high boulder content. Boulders are subangular to subrounded of siltstone. |
| 2 | | | B | 2.50-3.00 | | | | | |
| 3 | | | | | | | 250.37 | 3.00 | |
| | | | | | | END | | | TP terminated at 3.00m bgl. Unable to progress TP - sidewall collapse. |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|---|-----------------------|
| Remarks: Ingress of water at 1.50m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-30 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,822.0 N 583,346.4 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 284.08m O.D. | | DATE: 15.3.21 |

| | | | |
|--------------------|----------------|---|---|
| GROUNDWATER | | PIT DIRECTION: 100-280 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | 0.50-1.00 | | | 283.08 | 1.00 | Orangish brown silty sandy GRAVEL with high cobble content and low boulder content. Gravel is angular to subrounded fine to coarse of siltstone. Cobbles are angular to subrounded of siltstone. Boulders are angular of strong greenish grey siltstone. |
| 1 | | | | | | | 282.08 | 2.00 | Weathered SANDSTONE rock. Recovered as angular to subangular cobble and boulder sized clasts of strong yellowish brown fine grained sandstone with a little silty sandy gravel. Boulders are <400mm in diameter. |
| 2 | | | | | | END | | | TP terminated at 2.00m bgl. Unable to progress TP - sidewall collapse. Obstruction as rock. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-31 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,324.1 N 583,322.0 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 315.86m O.D. | | DATE: 16.3.21 |

| | | | |
|--|----------------|---|---|
| GROUNDWATER | | PIT DIRECTION: 090-270 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: dry 2nd: 3rd: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | TOPSOIL: Firm dark brown sandy gravelly peaty CLAY. |
| | | | | | | | 315.66 | 0.20 | Firm dark grey silty gravelly PEAT with low cobble content. |
| | | | B | 0.50-1.00 | | | 315.26 | 0.60 | Orangish brown becoming light brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with medium cobble content and low boulder content. Cobbles are subangular to subrounded of siltstone. Boulders are subangular to subrounded of siltstone. |
| 1 | | | B | 1.00-1.50 | | | | | |
| 2 | | | | | | | 313.26 | 2.60 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of strong greyish green siltstone with brown silty sandy gravelly matrix. |
| 3 | | | B | 3.00-3.20 | | | 312.66 | 3.20 | |
| | | | | | | END | | | TP terminated at 3.20m bgl. Obstruction as rock. |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLL.GDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-32A |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 539,261.2 N 586,751.8 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 393.78m O.D. | | DATE: 22.3.21 |

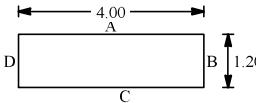
| | | | | |
|--------------------|----------------|---|--|---|
| GROUNDWATER | | PIT DIRECTION: 180-360 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: | Rose to after: | | | |
| 1st: 0.30m | | | | |
| 2nd: | | | | |
| 3rd: | | | | |





| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | ↓ | | | | ▽ | | | Spongy brown pseudo fibrous PEAT. H7. |
| 1 | | | D | 1.00-1.10 | | ▽ | | | |
| 2 | | | | | | ▽ | | | |
| 3 | | | B | 3.00-3.30 | | ○ | 390.98 | 2.80 | Grey silty sandy subangular to subrounded fine to coarse sandstone GRAVEL with medium cobble content and low boulder content. Cobbles are subangular to subrounded of sandstone. Boulders are subangular to subrounded of sandstone. |
| | | | | | | END | 390.48 | 3.30 | TP terminated at 3.30m bgl. Unable to progress TP - sidewall collapse. |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|---|-----------------------|
| Remarks: Seepage of water at 0.30m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-33 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,745.1 N 583,198.4 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 343.24m O.D. | | DATE: 8.3.21 |

| | | | |
|--------------------|----------------|--|--|
| GROUNDWATER | | PIT DIRECTION: PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG  | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|---|------------------|-----------|--|
| 0 | | | | | |  | | | Plastic dark brown amorphous PEAT with roots. H8. |
| | | | B | 0.50-1.00 | |  | 342.94 | 0.30 | Weathered SILTSTONE rock. Recovered as angular cobble sized clasts of siltstone with orangish brown sandy gravel silt matrix. |
| 1 | | | B | 1.00-1.20 | |  | 342.24 | 1.00 | Weathered SILTSTONE rock. Recovered as angular to subangular cobble and boulder sized clasts of strong brown siltstone with brown sandy silt matrix. |
| | | | | | |  | 342.04 | 1.20 | |
| | | | | | | END | | | TP terminated at 1.20m bgl. Obstruction as rock. |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-34 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,433.6 N 583,104.9 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 364.77m O.D. | | DATE: 8.3.21 |

| | | | |
|----------------------------|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry | PIT DIMENSION: 1.20 * 4.00m | | |
| 2nd: 3rd: | ROSE TO AFTER: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|---|
| 0 | | | | | | | 364.67 | 0.10 | Plastic dry dark brown amorphous PEAT with roots. H8. |
| 1 | | | | 1.00-1.20 | | | 363.57 | 1.20 | Weathered SILTSTONE rock. Recovered as angular to subangular cobble and boulder sized clasts of siltstone with brown silty sandy matrix. 1.00m: hard digging. |
| | | | | | | END | | | TP terminated at 1.20m bgl. Obstruction as rock. |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-35 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,656.2 N 582,858.5 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 324.13m O.D. | | DATE: 8.3.21 |

| | | | |
|---|---|--|---|
| GROUNDWATER Water strikes: Rose to after: 1st: dry 2nd: 3rd: | PIT DIRECTION: PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
|---|---|--|---|

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|---|
| 0 | | | D | 0.10-0.20 | | | 323.93 | 0.20 | Plastic damp dark brown amorphous PEAT. H8. |
| | | | B | 1.00-1.20 | | | 322.83 | 1.30 | Weathered SILTSTONE rock. Recovered as tabular and angular cobble and boulder sized clasts. Boulders are <400mm in diameter. 1.00m: hard digging. |
| | | | | | | END | | | TP terminated at 1.30m bgl. Obstruction as rock. |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-36 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 535,904.0 N 582,812.5 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 359.63m O.D. | | DATE: 8.3.21 |

| | | | |
|---|-----------------------|---|---|
| GROUNDWATER | | PIT DIRECTION: PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: dry 2nd: 3rd: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|--|
| 0 | | | D | 0.20-0.30 | | | 359.33 | 0.30 | Plastic damp dark brown amorphous PEAT. H8. |
| 1 | | | B | 1.00-1.50 | | | 358.13 | 1.50 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of strong grey fine grained siltstone with a little peaty silt. Boulders are <500mm in diameter. TP terminated at 1.30m bgl. Obstruction as rock. |
| 2 | | | | | | END | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-37 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,061.0 N 582,675.4 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 306.73m O.D. | | DATE: 8.3.21 |

| | | | |
|---|-----------------------|---|---|
| GROUNDWATER | | PIT DIRECTION: PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit unstable. Sidewall collapse. |
| Water strikes: 1st: dry 2nd: 3rd: | Rose to after: | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | 306.53 | 0.20 | MADE GROUND: Firm brown silty sandy GRAVEL. |
| 1 | | | B | 1.00-1.50 | | | 305.23 | 1.50 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of grey and brown siltstone with a little brown silty sandy gravel. |
| 2 | | | | | | END | | | TP terminated at 1.50m bgl. Obstruction as rock. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-38 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,281.7 N 582,448.6 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 288.01m O.D. | | DATE: 15.3.21 |

| | | | |
|--|----------------|---|---|
| GROUNDWATER | | PIT DIRECTION: 050-230 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: 1.00m 2nd: 3rd: | Rose to after: | | |

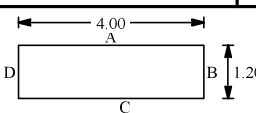
| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|------------|------------------|-----------|--|
| 0 | | | | | | | | | TOPSOIL: Firm dark brown peaty CLAY with low cobble content. |
| | | | | 0.50-1.00 | | | 287.71 | 0.30 | Firm light grey mottled light brown sandy gravelly SILT with high cobble content and low boulder content. Gravel is angular to subangular fine to coarse of siltstone. Cobbles are angular to subangular of siltstone. Boulders are angular. |
| | | | | 1.00-1.50 | | | 287.21 | 0.80 | Grey and brown silty GRAVEL with high cobble content. Cobbles are of siltstone. |
| | | | | 1.50-1.70 | | | 286.81 | 1.20 | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of very strong grey siltstone with a little brown sandy gravelly silt. |
| | | | | | | END | 286.31 | 1.70 | TP terminated at 1.70m bgl. Obstruction as rock. |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|---|-----------------------|
| Remarks: Seepage of water at 1.00m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

PROJECT: Ballinagree Wind Farm
LOCATION: Co Cork
CLIENT: Coillte
ENGINEER: Fehily Timoney & Co
Co-ordinates: E 536,469.4 N 582,750.2
TRIALPIT: TP-39
Sheet 1 of 1
Rig: Hyundai HX140L
Rev: DRAFT

Ground level: 297.50m O.D.
GROUNDWATER
 Water strikes: 1st: dry 2nd: 3rd:
 Rose to after:
PIT DIRECTION: 270-090
PIT DIMENSION: 1.20 * 4.00m
LOGGED BY: AG
 Shoring/Support: N/A
 Stability: Pit moderately stable.



| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | 297.30 | 0.20 | TOPSOIL: Grass over soft dark brownish grey sandy gravelly silty CLAY with medium cobble content. |
| 0.50-1.00 | | | B | 0.50-1.00 | | | | | Yellowish brown silty sandy subangular to subrounded fine to coarse mudstone GRAVEL with high cobble content. Cobbles are subangular to subrounded of mudstone. |
| 1 | | | | | | | | | |
| 2.00-2.50 | | | B | 2.00-2.50 | | | | | 1.50m: with high boulder content. Boulders are angular of weak to strong brown mudstone. Boulders are <500mm in diameter. |
| 3.00-3.50 | | | B | 3.00-3.50 | | | | | |
| 3.50 | | | | | | | 294.00 | 3.50 | TP terminated at 3.50m bgl. Unable to progress TP - sidewall collapse. Obstruction as rock. |
| 4 | | | | | | END | | | |
| 5 | | | | | | | | | |

Remarks: TP dry on excavation. TP backfilled with arisings.
Scale: 1:25

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-40 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,493.1 N 582,922.6 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 312.18m O.D. | | DATE: 15.3.21 |

| | | | |
|--|------------------------------------|--|--|
| GROUNDWATER | PIT DIRECTION: 045-225 | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: 1st: dry 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | TOPSOIL: Grass over silty sandy gravelly CLAY with low cobble content. |
| | | | B | 0.50-1.00 | | | 311.78 | 0.40 | Yellowish brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with high cobble content. Cobbles are subangular to subrounded of greyish green siltstone. |
| 1 | | | B | 1.50-2.00 | | | | | 1.00m: with boulders. Boulders are subangular to subrounded. Boulders are <500mm in diameter. Hard digging. |
| 2 | | | | | | END | 310.18 | 2.00 | TP terminated at 2.00m bgl. Obstruction as boulders as possible rock. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-41 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 536,653.0 N 583,262.4 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 315.54m O.D. | | DATE: 15.3.21 |

| | | | | |
|--------------------|----------------|---|--|--|
| GROUNDWATER | | PIT DIRECTION: 020-200 PIT DIMENSION: 1.20 * 4.00m LOGGED BY: AG | | Shoring/Support: N/A Stability: Pit stable. |
| Water strikes: | Rose to after: | | | |
| 1st: dry | | | | |
| 2nd: | | | | |
| 3rd: | | | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|---|
| 0 | | | | | | | | | TOPSOIL: Grass over firm dark brown sandy gravelly peaty CLAY with rootlets. |
| | | | | 0.50-1.00 | | | 315.14 | 0.40 | Orangish brown to light brown silty sandy angular to subangular fine to coarse siltstone GRAVEL with high cobble content. Cobbles are angular to subangular of siltstone. |
| 1 | | | B | 1.00-1.50 | | | | | 1.00m: with high boulder content. Boulders are angular of strong grey siltstone. |
| | | | B | | | | 314.04 | 1.50 | |
| | | | | | | END | | | TP terminated at 1.50m bgl. Obstruction as rock. |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDR.LGDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-42 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 538,106.6 N 586,230.9 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 407.75m O.D. | | DATE: 18.3.21 |

| | | | |
|--|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: 130-310 | | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: 3.00m 2nd: 3rd: | PIT DIMENSION: 1.20 * 4.00m | | |
| Rose to after: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | Plastic dark brown amorphous PEAT. H8. |
| | | | D | 0.50-0.60 | | | 406.85 | 0.90 | |
| 1 | | | B | 1.00-1.50 | | | 405.95 | 1.80 | Light brown silty sandy subangular to subrounded fine to coarse siltstone GRAVEL with medium high cobble content. Cobbles are subangular to subrounded of siltstone. |
| 2 | | | B | 2.00-2.50 | | | | | Weathered SILTSTONE rock. Recovered as angular cobble and boulder sized clasts of strong greyish brown siltstone with grey silty sand and gravel matrix. |
| 3 | | | | | | | 404.55 | 3.20 | |
| | | | | | | END | | | TP terminated at 3.20m bgl. Obstruction. |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|---|-----------------------|
| Remarks: Seepage of water at 3.00m bgl. TP backfilled with arisings. | Scale: 1:25 |
|---|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLL.GDT 18/6/21

| | | |
|--|---|----------------------------|
| PROJECT: Ballinagree Wind Farm | | TRIALPIT: TP-43 |
| LOCATION: Co Cork | | Sheet 1 of 1 |
| CLIENT: Coillte | Co-ordinates: E 533,521.2 N 585,062.7 | Rig: Hyundai HX140L |
| ENGINEER: Fehily Timoney & Co | | Rev: DRAFT |
| Ground level: 452.47m O.D. | | DATE: 11.3.21 |

| | | | |
|----------------------------|------------------------------------|--|---|
| GROUNDWATER | PIT DIRECTION: | | Shoring/Support: N/A Stability: Pit moderately stable. |
| Water strikes: 1st: dry | PIT DIMENSION: 1.20 * 4.00m | | |
| 2nd: 3rd: | LOGGED BY: AG | | |

| Depth (m) | Date | Water | Samples | Depth (m) | In-situ Vane Tests | LEGEND | Elevation m O.D. | Depth (m) | DESCRIPTION |
|-----------|------|-------|---------|-----------|--------------------|--------|------------------|-----------|--|
| 0 | | | | | | | | | Brown silty sandy subangular to subrounded fine to coarse GRAVEL of various lithologies with medium cobble content. Cobbles are subangular to subrounded of various lithologies. |
| 0.50-1.00 | | | B | | | | | | 1.00m: with low boulder content. Boulders are angular of grey siltstone. Boulders are <500mm in diameter. |
| 1.50m | | | | | | | | | 1.50m: Boulders are <1500mm in diameter. |
| 2.00-2.50 | | | B | | | | | | 2.00m: hard digging. |
| 2.50 | | | | | | END | 449.97 | 2.50 | TP terminated at 2.50m bgl. Obstruction as boulders. |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |

| | |
|--|-----------------------|
| Remarks: TP dry on excavation. TP backfilled with arisings. | Scale: 1:25 |
|--|-----------------------|

TRIAL PIT VANE & WL RISES BALLINAGREE WF TPS ALL FILE MAR 29 2021.GPJ IRISHDRLLGDT 18/6/21

Appendix 03

Groundwater Readings

| | | | |
|--|--|------------------------------------|-------------|
| IRISH DRILLING LTD. Loughrea Co. Galway | | Project: Ballinagree Wind Farm | |
| | | Client: Coillte | |
| | | Location: Ballinagree, County Cork | |
| Tel: (091) 841274 Fax: (091) 880861 | | Date: 13.05.2021 | Sheet No. 1 |
| | | Checked: RK | |

Water Levels in Standpipes

| Location | Date | Depth | Comments |
|----------|----------|-------|--------------------------------------|
| BH 01 | 13.05.21 | 6.80m | 50mm standpipe, Rotary Core Borehole |
| BH 02 | 13.05.21 | DRY | 50mm standpipe, Rotary Core Borehole |
| BH 03 | 13.05.21 | 0.56m | 50mm standpipe, Rotary Core Borehole |
| BH 04 | 13.05.21 | 7.95m | 50mm standpipe, Rotary Core Borehole |
| BH 05 | 13.05.21 | | Borehole not completed on this date. |

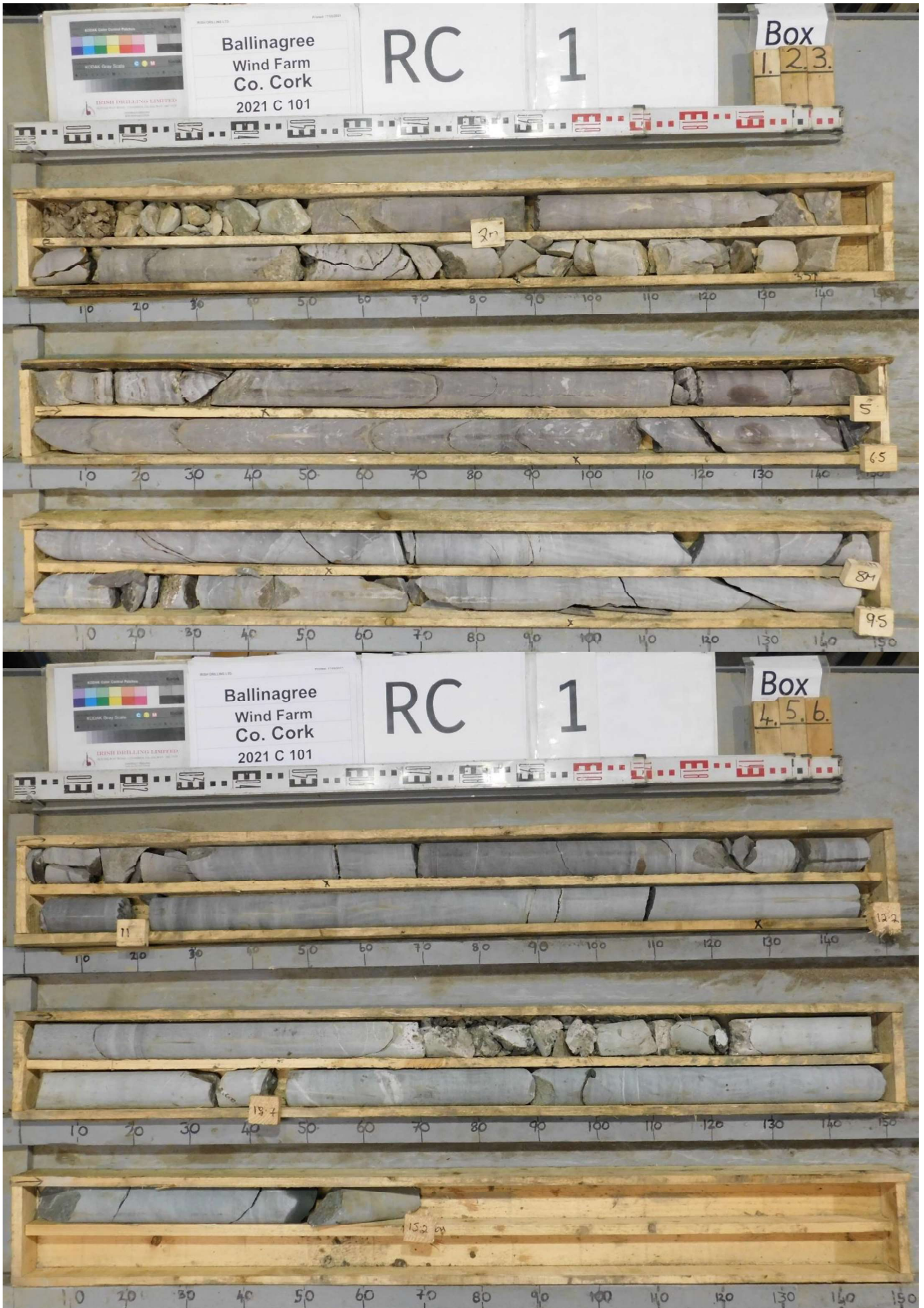
Remarks:

All readings record depth from ground level to top of water level.

Appendix 04

Photographs (Rotary Core)

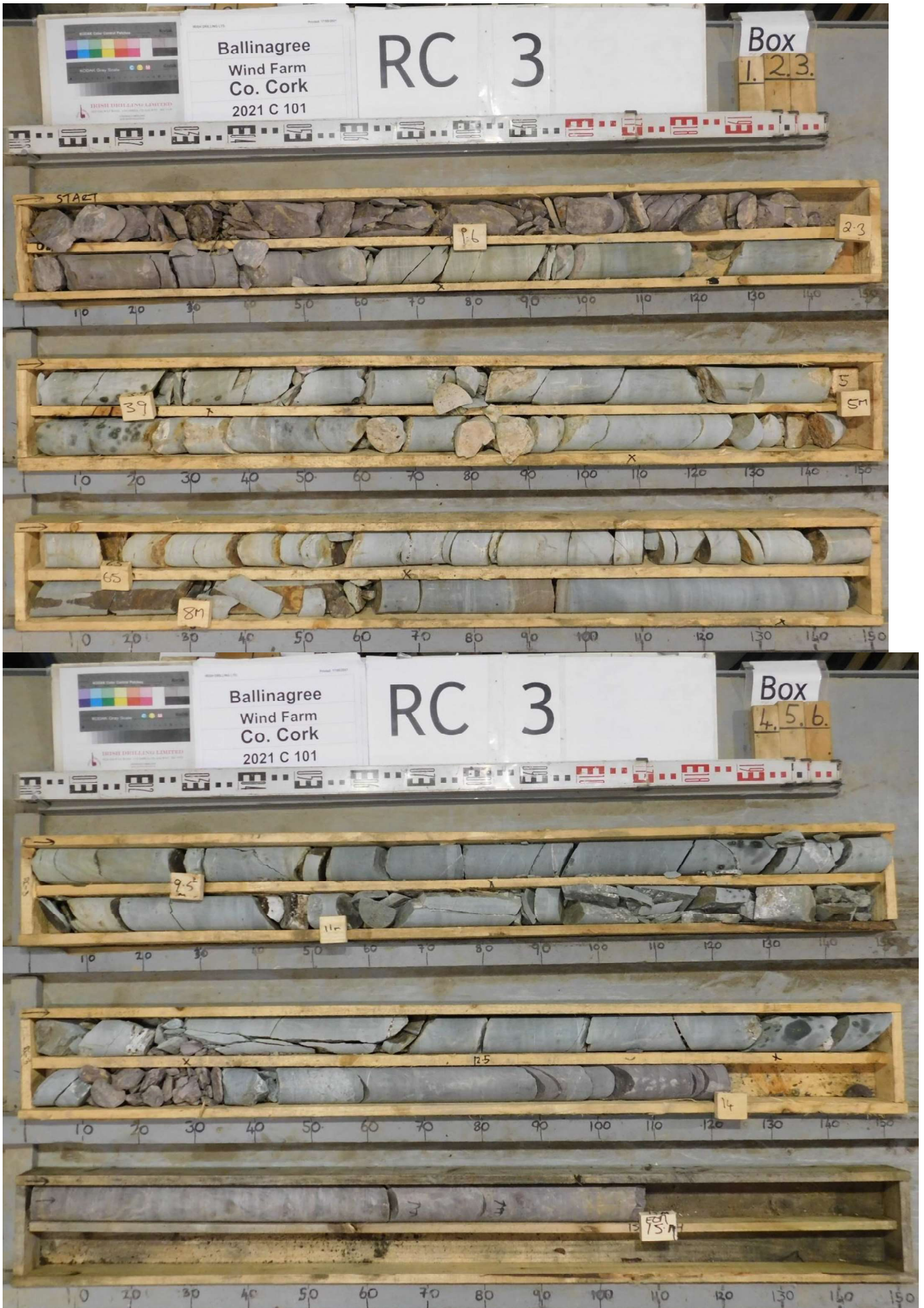
Irish Drilling Ltd: Core Photos:



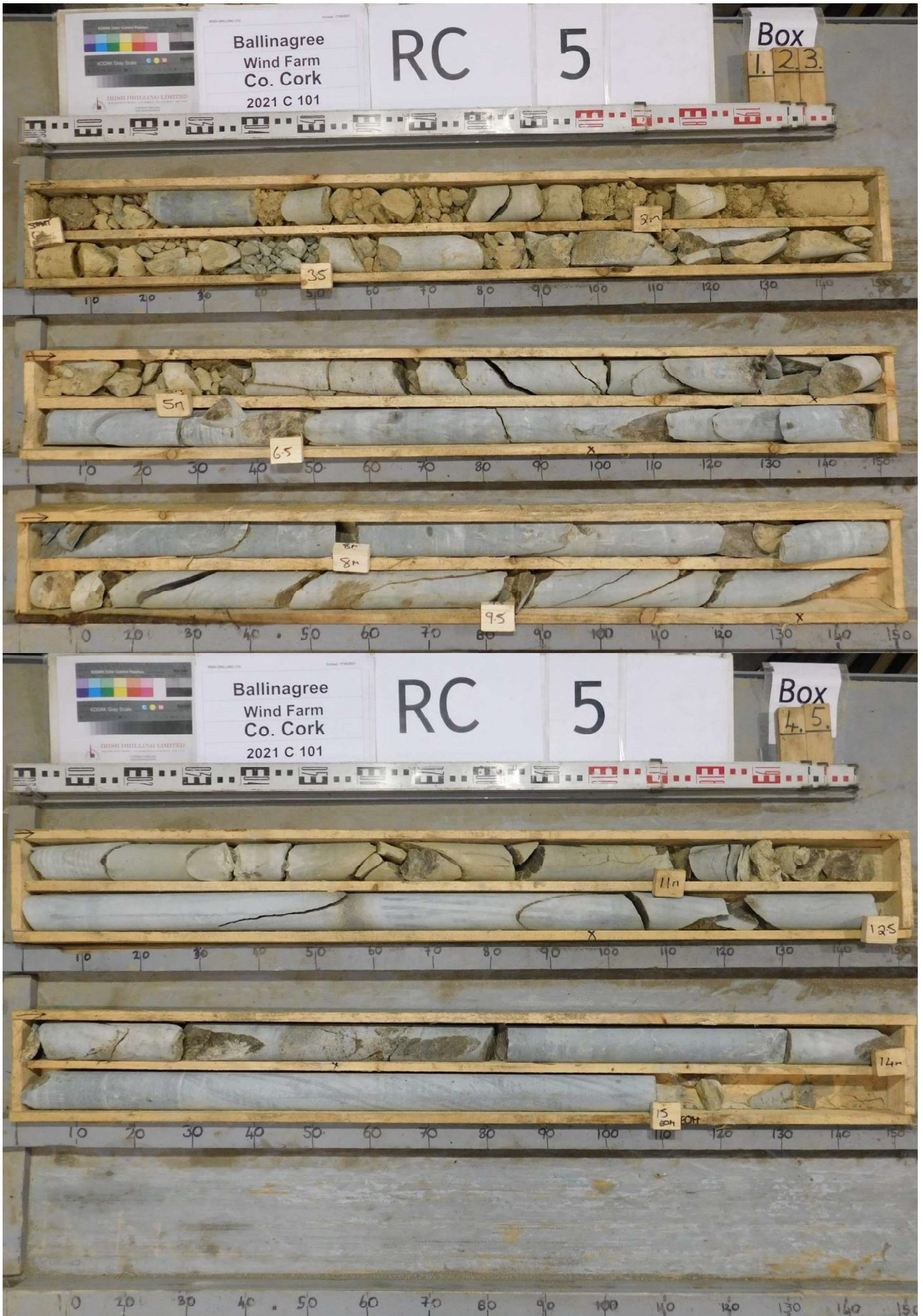
Irish Drilling Ltd: Core Photos:



Irish Drilling Ltd: Core Photos:



Irish Drilling Ltd: Core Photos:



Appendix 05

Photographs (Trial Pit)

Irish Drilling Ltd: Trial Pit Photos:



Figure 1 H:\21C101_Ballinagree TP
Photos\Photos\T1\DSCF4037.JPG



Figure 4 H:\21C101_Ballinagree TP
Photos\Photos\T2\DSCF4059.JPG



Figure 2 H:\21C101_Ballinagree TP
Photos\Photos\T1\DSCF4038.JPG



Figure 5 H:\21C101_Ballinagree TP
Photos\Photos\T3\DSCF3996.JPG



Figure 3 H:\21C101_Ballinagree TP
Photos\Photos\T2\DSCF4057.JPG



Figure 6 H:\21C101_Ballinagree TP
Photos\Photos\T3\DSCF3997.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 7 H:\21C101_Ballinagree TP
Photos\Photos\T4\DSCF3962.JPG



Figure 10 H:\21C101_Ballinagree TP
Photos\Photos\T5\DSCF4134.JPG



Figure 8 H:\21C101_Ballinagree TP
Photos\Photos\T4\DSCF3966.JPG



Figure 11 H:\21C101_Ballinagree TP
Photos\Photos\T6\DSCF3987.JPG



Figure 9 H:\21C101_Ballinagree TP
Photos\Photos\T5\DSCF4133.JPG



Figure 12 H:\21C101_Ballinagree TP
Photos\Photos\T6\DSCF3988.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 13 H:\21C101_Ballinagree TP
Photos\Photos\T7\DSCF4162.JPG



Figure 16 H:\21C101_Ballinagree TP
Photos\Photos\T8\DSCF4159.JPG



Figure 14 H:\21C101_Ballinagree TP
Photos\Photos\T7\DSCF4163.JPG



Figure 17 H:\21C101_Ballinagree TP
Photos\Photos\T10\DSCF4020.JPG



Figure 15 H:\21C101_Ballinagree TP
Photos\Photos\T8\DSCF4158.JPG



Figure 18 H:\21C101_Ballinagree TP
Photos\Photos\T10\DSCF4021.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 19 H:\21C101_Ballinagree TP
Photos\Photos\T11\DSCF4111.JPG



Figure 22 H:\21C101_Ballinagree TP
Photos\Photos\T12\DSCF4101.JPG



Figure 20 H:\21C101_Ballinagree TP
Photos\Photos\T11\DSCF4112.JPG



Figure 23 H:\21C101_Ballinagree TP
Photos\Photos\T13\DSCF4093.JPG



Figure 21 H:\21C101_Ballinagree TP
Photos\Photos\T12\DSCF4100.JPG



Figure 24 H:\21C101_Ballinagree TP
Photos\Photos\T13\DSCF4094.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 25 H:\21C101_Ballinagree TP
Photos\Photos\T14\DSCF4181.JPG



Figure 28 H:\21C101_Ballinagree TP
Photos\Photos\T15\DSCF4203.JPG



Figure 26 H:\21C101_Ballinagree TP
Photos\Photos\T14\DSCF4184.JPG



Figure 29 H:\21C101_Ballinagree TP
Photos\Photos\T16\DSCF4213.JPG



Figure 27 H:\21C101_Ballinagree TP
Photos\Photos\T15\DSCF4201.JPG



Figure 30 H:\21C101_Ballinagree TP
Photos\Photos\T16\DSCF4214.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 31 H:\21C101_Ballinagree TP
Photos\Photos\T17\DSCF4310.JPG



Figure 34 H:\21C101_Ballinagree TP
Photos\Photos\T18\DSCF4294.JPG



Figure 32 H:\21C101_Ballinagree TP
Photos\Photos\T17\DSCF4311.JPG



Figure 35 H:\21C101_Ballinagree TP
Photos\Photos\T19\DSCF4247.JPG



Figure 33 H:\21C101_Ballinagree TP
Photos\Photos\T18\DSCF4293.JPG



Figure 36 H:\21C101_Ballinagree TP
Photos\Photos\T19\DSCF4248.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 37 H:\21C101_Ballinagree TP
Photos\Photos\T20A\DSCF4268.JPG



Figure 40 H:\21C101_Ballinagree TP
Photos\Photos\T21A\DSCF4289.JPG



Figure 38 H:\21C101_Ballinagree TP
Photos\Photos\T20A\DSCF4270.JPG



Figure 41 H:\21C101_Ballinagree TP
Photos\Photos\TP01\DSCF4173.JPG



Figure 39 H:\21C101_Ballinagree TP
Photos\Photos\T21A\DSCF4288.JPG



Figure 42 H:\21C101_Ballinagree TP
Photos\Photos\TP01\DSCF4175.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 43 H:\21C101_Ballinagree TP Photos\Photos\TP02\DSCF4190.JPG



Figure 46 H:\21C101_Ballinagree TP Photos\Photos\TP03\DSCF4197.JPG



Figure 44 H:\21C101_Ballinagree TP Photos\Photos\TP02\DSCF4191.JPG



Figure 47 H:\21C101_Ballinagree TP Photos\Photos\TP04\DSCF4304.JPG



Figure 45 H:\21C101_Ballinagree TP Photos\Photos\TP03\DSCF4194.JPG



Figure 48 H:\21C101_Ballinagree TP Photos\Photos\TP04\DSCF4305.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 49 H:\21C101_Ballinagree TP
Photos\Photos\TP05\DSCF4298.JPG



Figure 52 H:\21C101_Ballinagree TP
Photos\Photos\TP06\DSCF4208.JPG



Figure 50 H:\21C101_Ballinagree TP
Photos\Photos\TP05\DSCF4300.JPG



Figure 53 H:\21C101_Ballinagree TP
Photos\Photos\TP07\DSCF4315.JPG



Figure 51 H:\21C101_Ballinagree TP
Photos\Photos\TP06\DSCF4207.JPG



Figure 54 H:\21C101_Ballinagree TP
Photos\Photos\TP07\DSCF4316.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 55 H:\21C101_Ballinagree TP Photos\Photos\TP08\DSCF4217.JPG



Figure 58 H:\21C101_Ballinagree TP Photos\Photos\TP09\DSCF4233.JPG



Figure 56 H:\21C101_Ballinagree TP Photos\Photos\TP08\DSCF4218.JPG



Figure 59 H:\21C101_Ballinagree TP Photos\Photos\TP10\DSCF4241.JPG



Figure 57 H:\21C101_Ballinagree TP Photos\Photos\TP09\DSCF4232.JPG



Figure 60 H:\21C101_Ballinagree TP Photos\Photos\TP10\DSCF4242.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 61 H:\21C101_Ballinagree TP
Photos\Photos\TP11A\DSCF4283.JPG



Figure 64 H:\21C101_Ballinagree TP
Photos\Photos\TP12\DSCF4253.JPG



Figure 62 H:\21C101_Ballinagree TP
Photos\Photos\TP11A\DSCF4284.JPG



Figure 65 H:\21C101_Ballinagree TP
Photos\Photos\TP13\DSCF4261.JPG



Figure 63 H:\21C101_Ballinagree TP
Photos\Photos\TP12\DSCF4252.JPG



Figure 66 H:\21C101_Ballinagree TP
Photos\Photos\TP13\DSCF4263.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 67 H:\21C101_Ballinagree TP
Photos\Photos\TP14\DSCF4080.JPG



Figure 70 H:\21C101_Ballinagree TP
Photos\Photos\TP15\DSCF4072.JPG



Figure 68 H:\21C101_Ballinagree TP
Photos\Photos\TP14\DSCF4084.JPG



Figure 71 H:\21C101_Ballinagree TP
Photos\Photos\TP16\DSCF4066.JPG



Figure 69 H:\21C101_Ballinagree TP
Photos\Photos\TP15\DSCF4071.JPG



Figure 72 H:\21C101_Ballinagree TP
Photos\Photos\TP16\DSCF4067.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 73 H:\21C101_Ballinagree TP
Photos\Photos\TP17\DSCF4053.JPG



Figure 76 H:\21C101_Ballinagree TP
Photos\Photos\TP18\DSCF4046.JPG



Figure 74 H:\21C101_Ballinagree TP
Photos\Photos\TP17\DSCF4054.JPG



Figure 77 H:\21C101_Ballinagree TP
Photos\Photos\TP19\DSCF4042.JPG

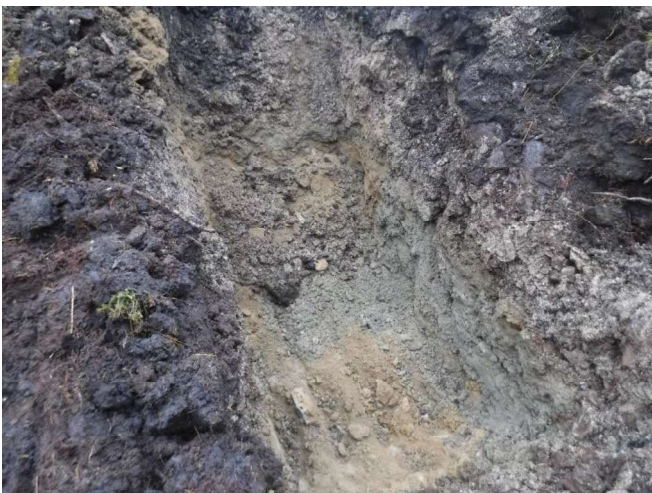


Figure 75 H:\21C101_Ballinagree TP
Photos\Photos\TP18\DSCF4045.JPG



Figure 78 H:\21C101_Ballinagree TP
Photos\Photos\TP19\DSCF4043.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 79 H:\21C101_Ballinagree TP Photos\Photos\TP20\DSCF4030.JPG



Figure 82 H:\21C101_Ballinagree TP Photos\Photos\TP21\DSCF4106.JPG



Figure 80 H:\21C101_Ballinagree TP Photos\Photos\TP20\DSCF4031.JPG



Figure 83 H:\21C101_Ballinagree TP Photos\Photos\TP22\DSCF4088.JPG



Figure 81 H:\21C101_Ballinagree TP Photos\Photos\TP21\DSCF4105.JPG



Figure 84 H:\21C101_Ballinagree TP Photos\Photos\TP22\DSCF4089.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 85 H:\21C101_Ballinagree TP Photos\Photos\TP23\DSCF4115.JPG



Figure 88 H:\21C101_Ballinagree TP Photos\Photos\TP24\DSCF4121.JPG



Figure 86 H:\21C101_Ballinagree TP Photos\Photos\TP23\DSCF4116.JPG



Figure 89 H:\21C101_Ballinagree TP Photos\Photos\TP25\DSCF4014.JPG



Figure 87 H:\21C101_Ballinagree TP Photos\Photos\TP24\DSCF4120.JPG



Figure 90 H:\21C101_Ballinagree TP Photos\Photos\TP25\DSCF4016.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 91 H:\21C101_Ballinagree TP Photos\Photos\TP26\DSCF4009.JPG



Figure 94 H:\21C101_Ballinagree TP Photos\Photos\TP27\DSCF4005.JPG



Figure 92 H:\21C101_Ballinagree TP Photos\Photos\TP26\DSCF4010.JPG



Figure 95 H:\21C101_Ballinagree TP Photos\Photos\TP28A\DSCF4273.JPG



Figure 93 H:\21C101_Ballinagree TP Photos\Photos\TP27\DSCF3999.JPG



Figure 96 H:\21C101_Ballinagree TP Photos\Photos\TP28A\DSCF4275.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 97 H:\21C101_Ballinagree TP Photos\Photos\TP29\DSCF4023.JPG



Figure 100 H:\21C101_Ballinagree TP Photos\Photos\TP30\DSCF4153.JPG



Figure 98 H:\21C101_Ballinagree TP Photos\Photos\TP29\DSCF4026.JPG



Figure 101 H:\21C101_Ballinagree TP Photos\Photos\TP31\DSCF4168.JPG



Figure 99 H:\21C101_Ballinagree TP Photos\Photos\TP30\DSCF4152.JPG



Figure 102 H:\21C101_Ballinagree TP Photos\Photos\TP31\DSCF4169.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 103 H:\21C101_Ballinagree TP
Photos\Photos\TP32A\DSCF4277.JPG



Figure 106 H:\21C101_Ballinagree TP
Photos\Photos\TP33\DSCF3993.JPG



Figure 104 H:\21C101_Ballinagree TP
Photos\Photos\TP32A\DSCF4278.JPG



Figure 107 H:\21C101_Ballinagree TP
Photos\Photos\TP34\DSCF3982.JPG



Figure 105 H:\21C101_Ballinagree TP
Photos\Photos\TP33\DSCF3992.JPG



Figure 108 H:\21C101_Ballinagree TP
Photos\Photos\TP34\DSCF3984.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 109 H:\21C101_Ballinagree TP
Photos\Photos\TP35\DSCF3979.JPG



Figure 112 H:\21C101_Ballinagree TP
Photos\Photos\TP36\DSCF3972.JPG



Figure 110 H:\21C101_Ballinagree TP
Photos\Photos\TP35\DSCF3981.JPG



Figure 113 H:\21C101_Ballinagree TP
Photos\Photos\TP37\DSCF3975.JPG



Figure 111 H:\21C101_Ballinagree TP
Photos\Photos\TP36\DSCF3971.JPG



Figure 114 H:\21C101_Ballinagree TP
Photos\Photos\TP37\DSCF3976.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 115 H:\21C101_Ballinagree TP Photos\Photos\TP38\DSCF4125.JPG



Figure 118 H:\21C101_Ballinagree TP Photos\Photos\TP39\DSCF4143.JPG



Figure 116 H:\21C101_Ballinagree TP Photos\Photos\TP38\DSCF4126.JPG



Figure 119 H:\21C101_Ballinagree TP Photos\Photos\TP40\DSCF4137.JPG



Figure 117 H:\21C101_Ballinagree TP Photos\Photos\TP39\DSCF4142.JPG



Figure 120 H:\21C101_Ballinagree TP Photos\Photos\TP40\DSCF4138.JPG

Irish Drilling Ltd: Trial Pit Photos:



Figure 121 H:\21C101_Ballinagree TP Photos\Photos\TP41\DSCF4147.JPG



Figure 124 H:\21C101_Ballinagree TP Photos\Photos\TP42\DSCF4225.JPG



Figure 122 H:\21C101_Ballinagree TP Photos\Photos\TP41\DSCF4148.JPG



Figure 125 H:\21C101_Ballinagree TP Photos\Photos\TP43\DSCF4076.JPG



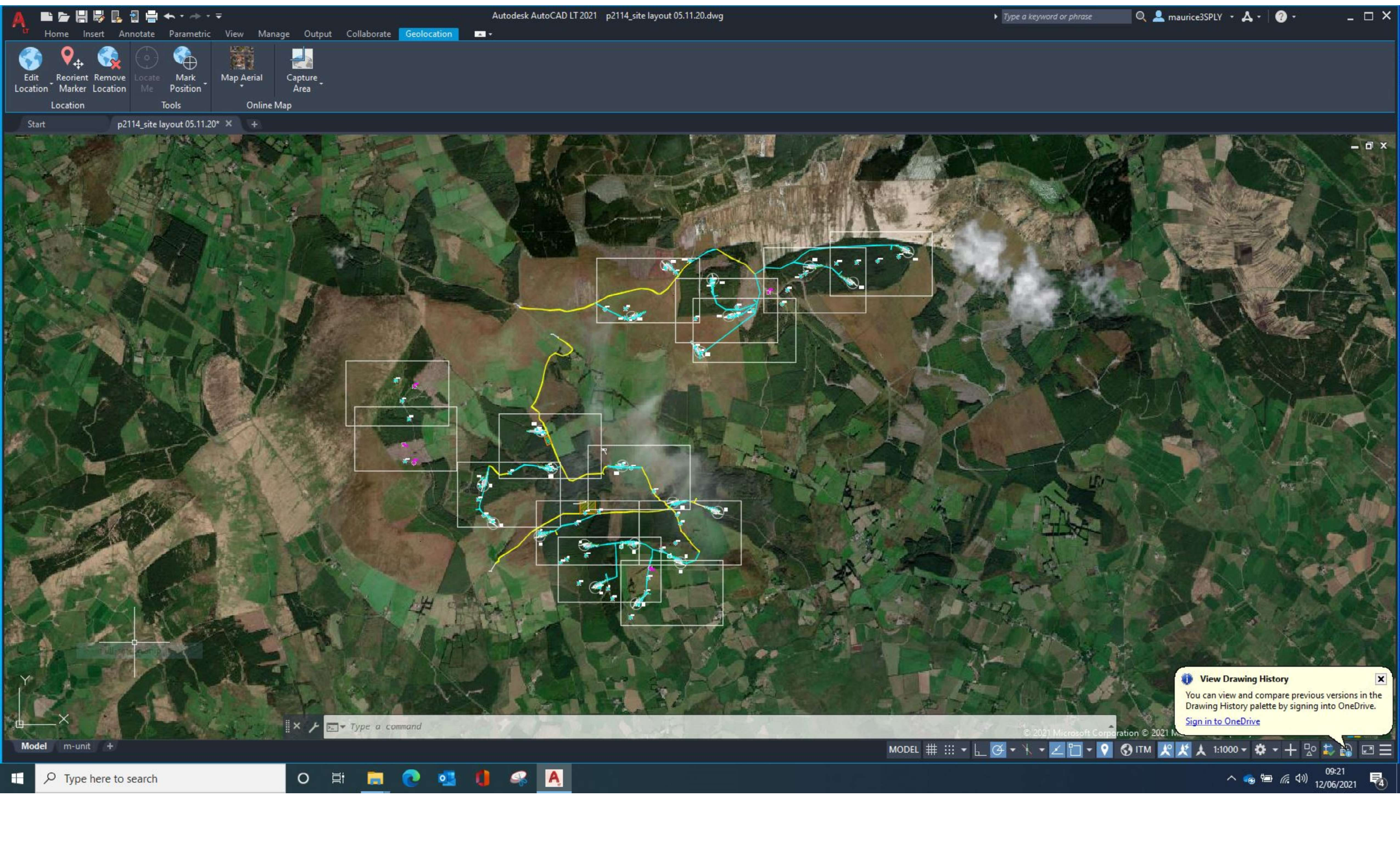
Figure 123 H:\21C101_Ballinagree TP Photos\Photos\TP42\DSCF4224.JPG



Figure 126 H:\21C101_Ballinagree TP Photos\Photos\TP43\DSCF4077.JPG

Appendix 06

Site Plans



Home Insert Annotate Parametric View Manage Output Collaborate Geolocation

Location Tools Online Map

- Edit Location
- Reorient Marker
- Remove Location
- Locate Me
- Mark Position
- Map Aerial
- Capture Area

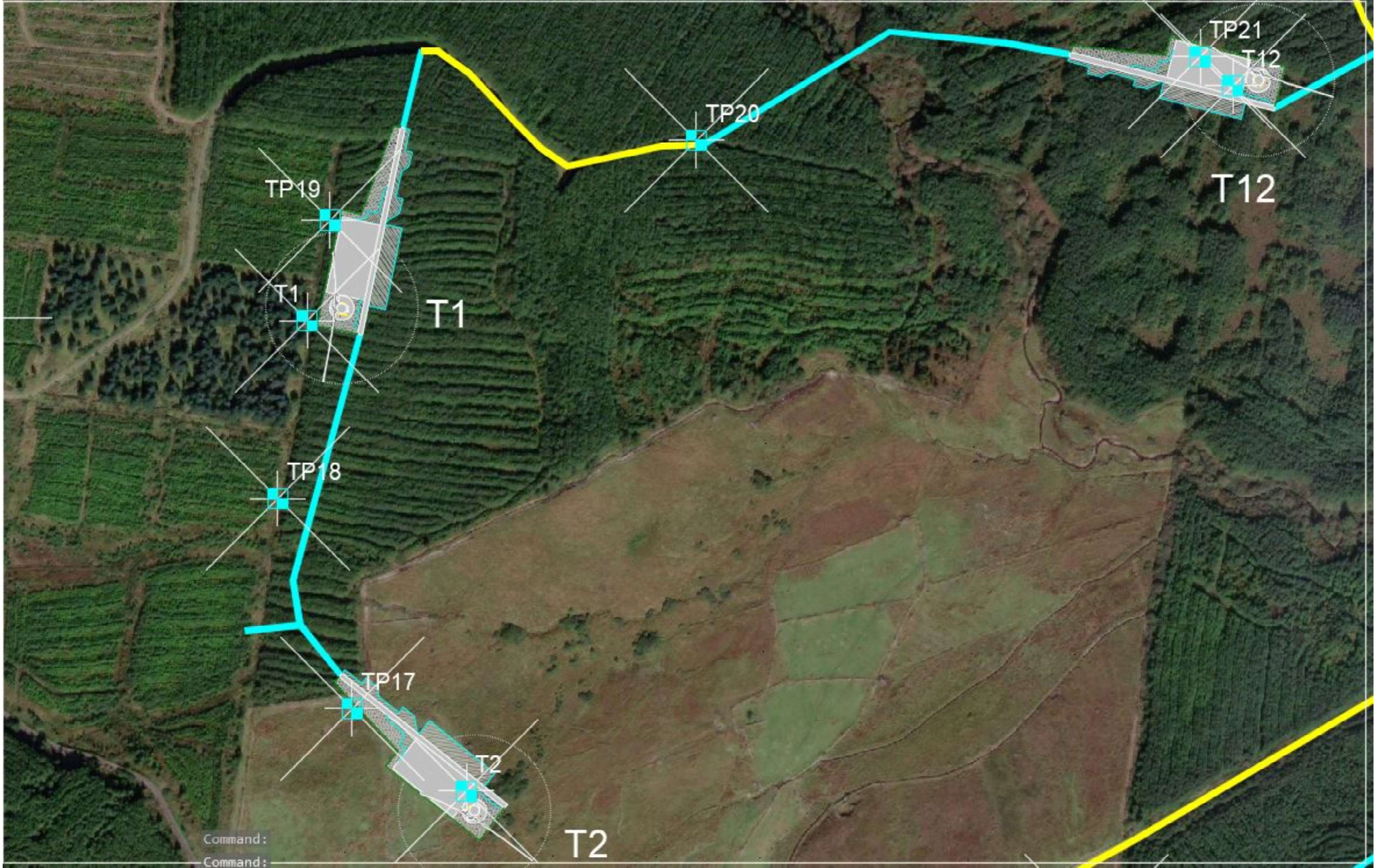
Start p2114_site layout 05.11.20*

View Drawing History

You can view and compare previous versions in the Drawing History palette by signing into OneDrive.

[Sign in to OneDrive](#)

Model m-unit + MODEL # : : L M P 1:1000



Command:

Command:

TP19

TP20

TP21

T1

T1

TP18

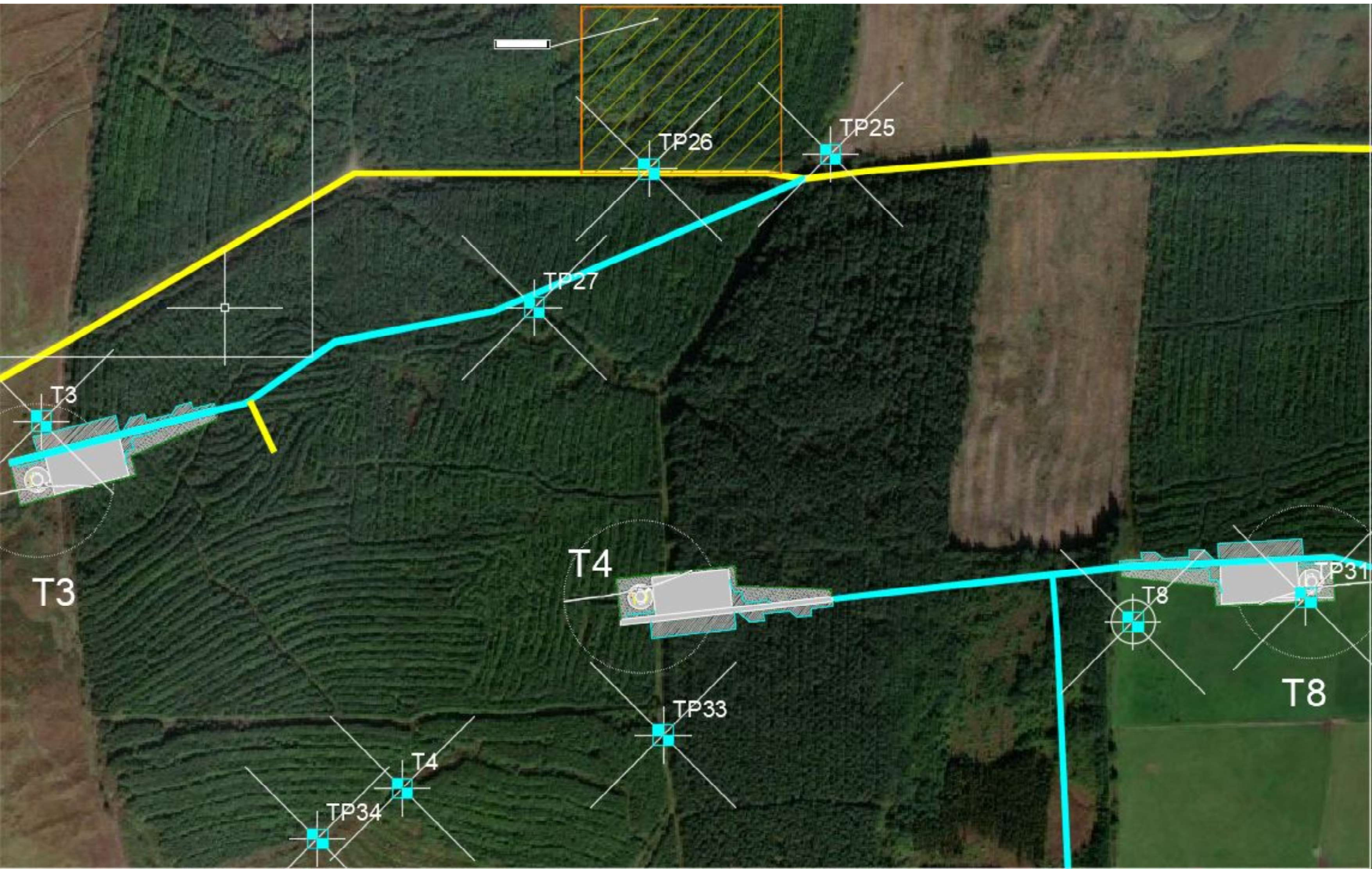
TP17

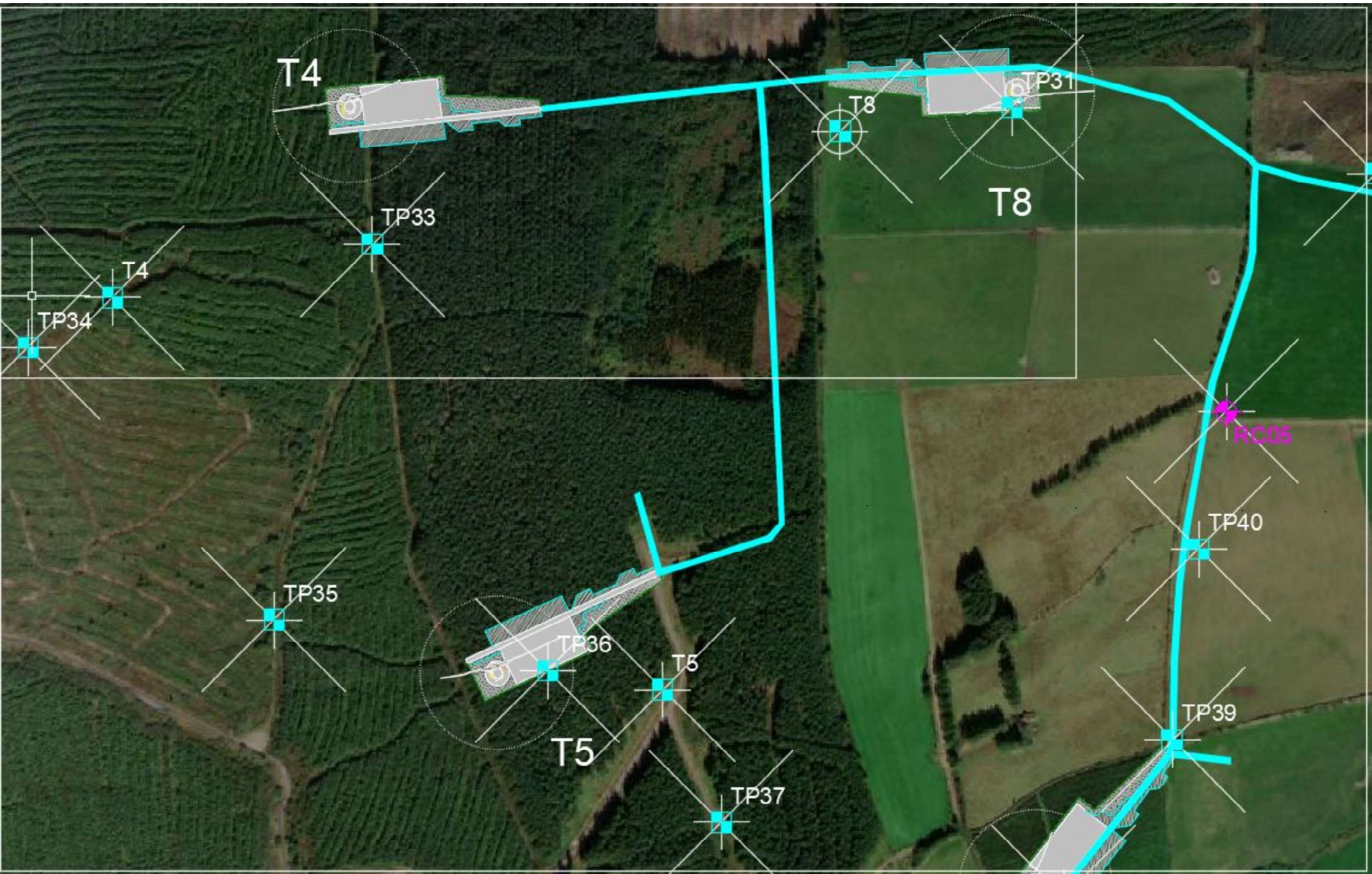
T2

T2

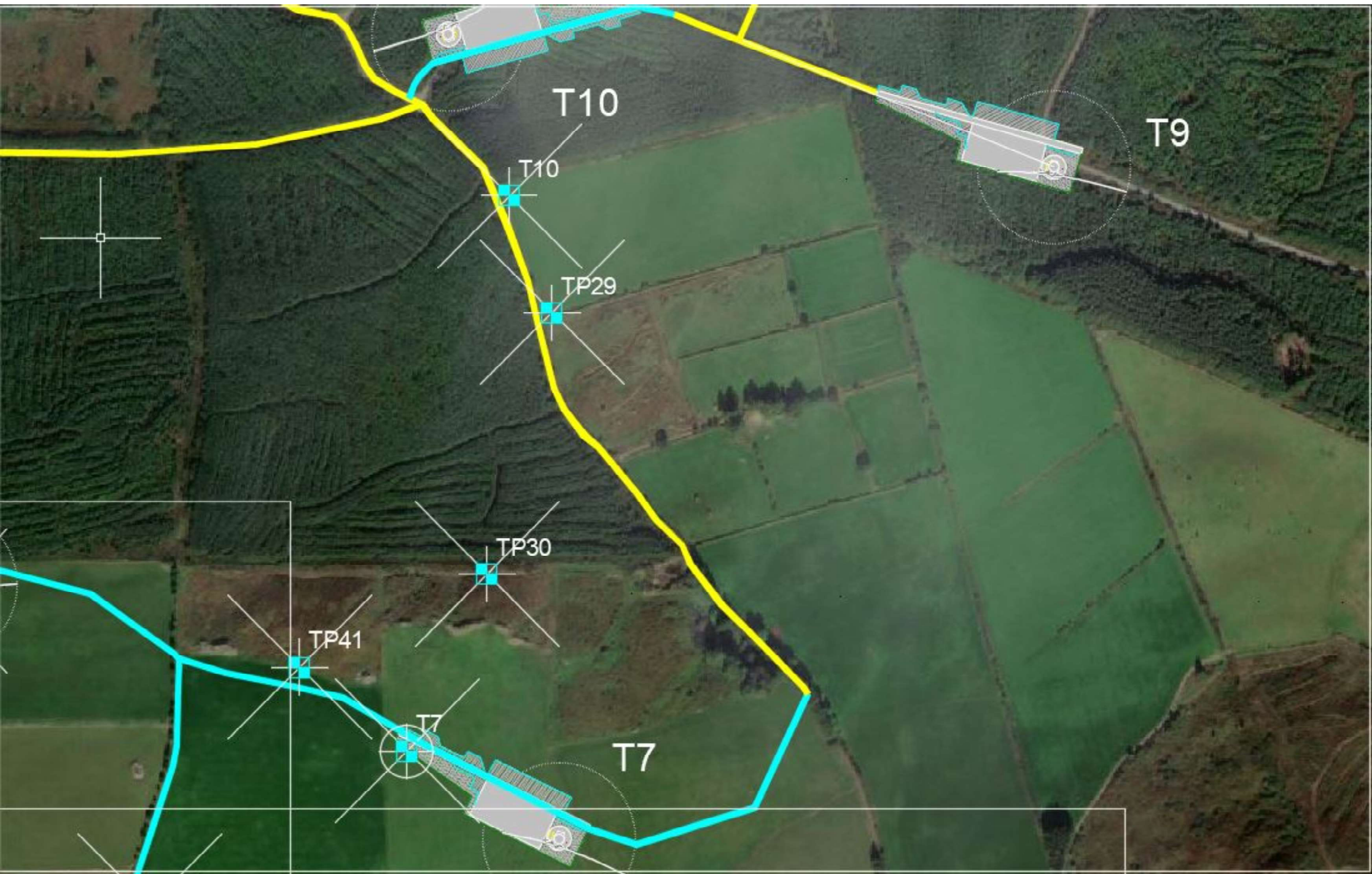
T12

T12

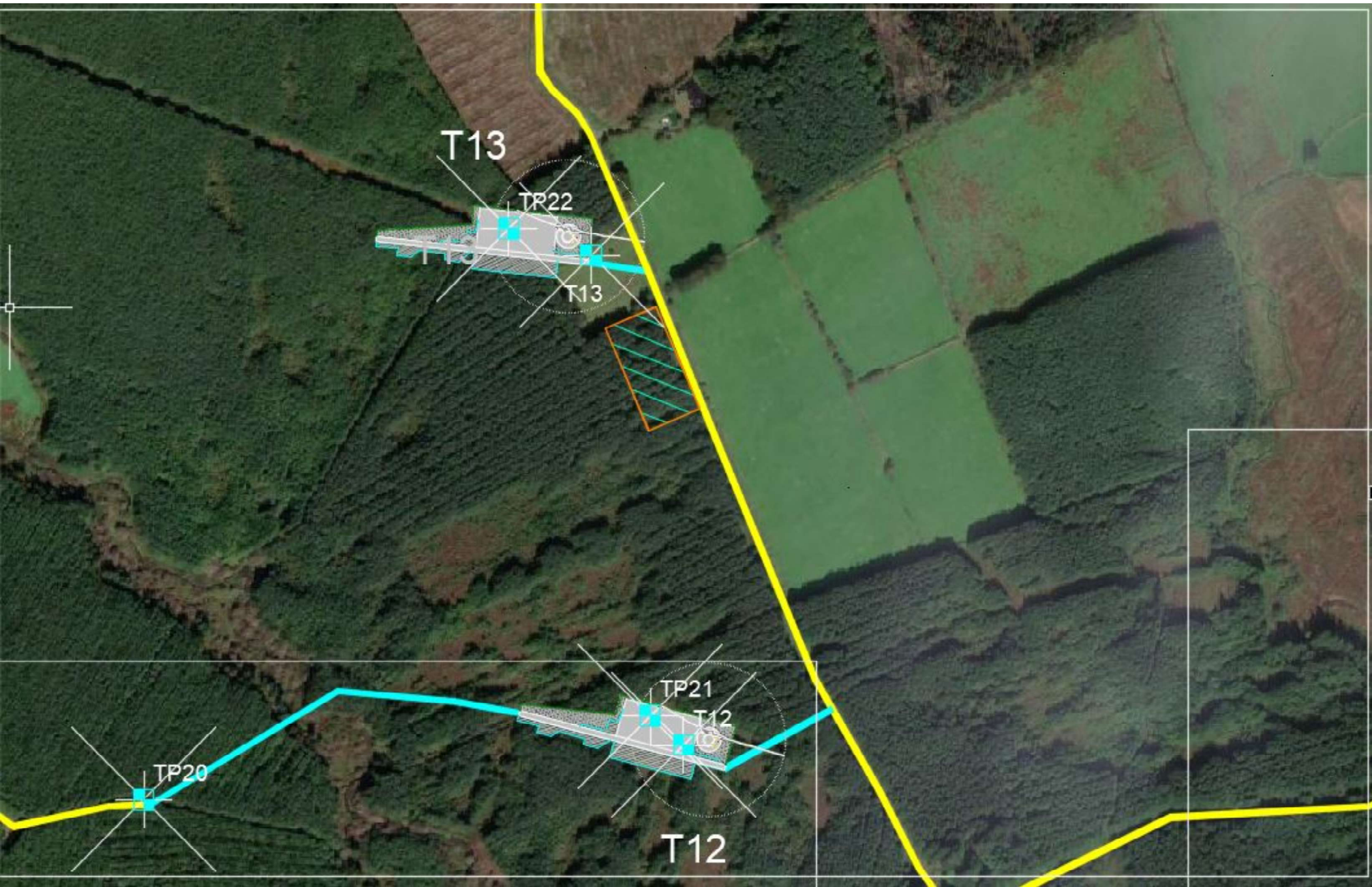


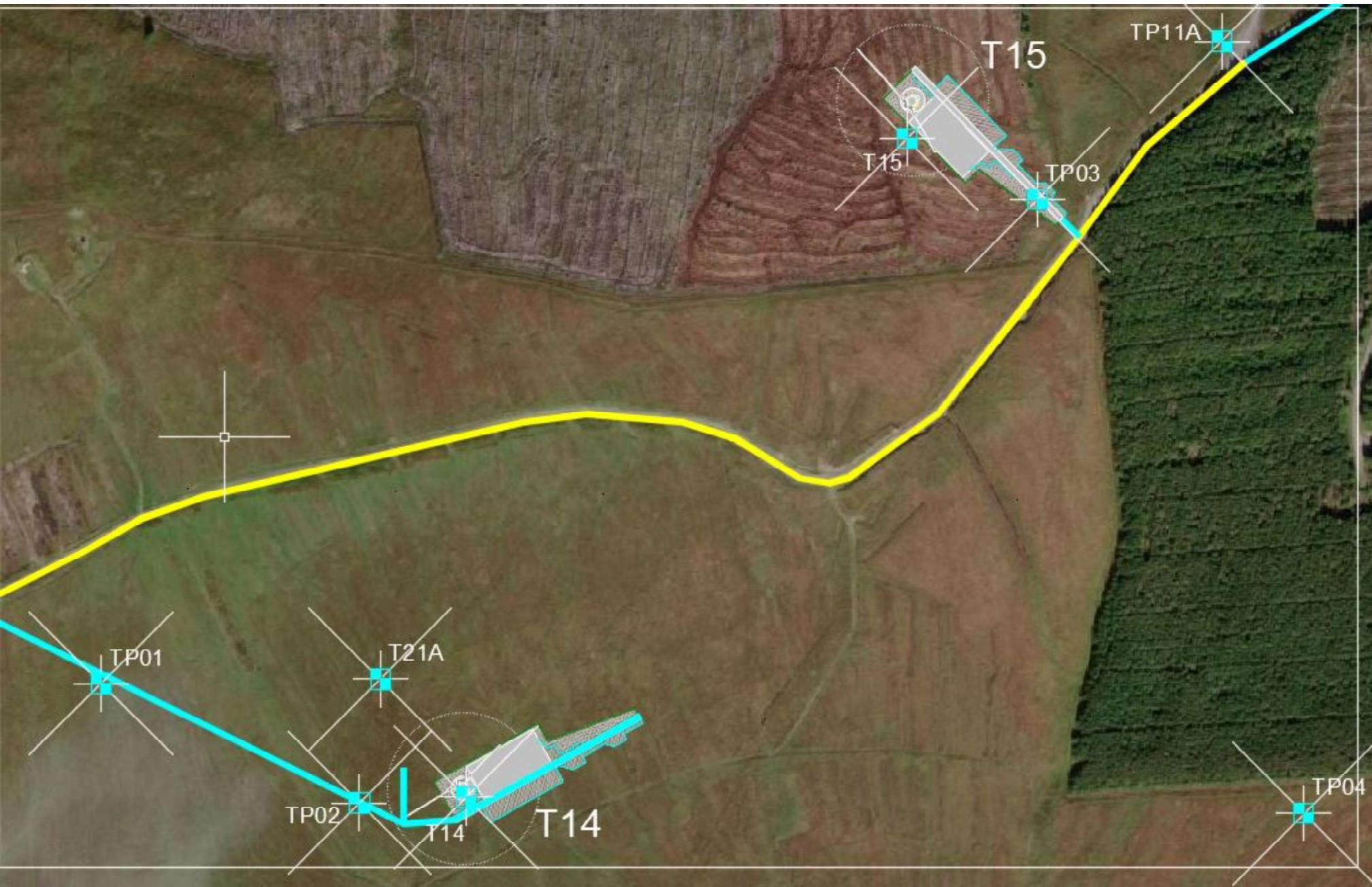


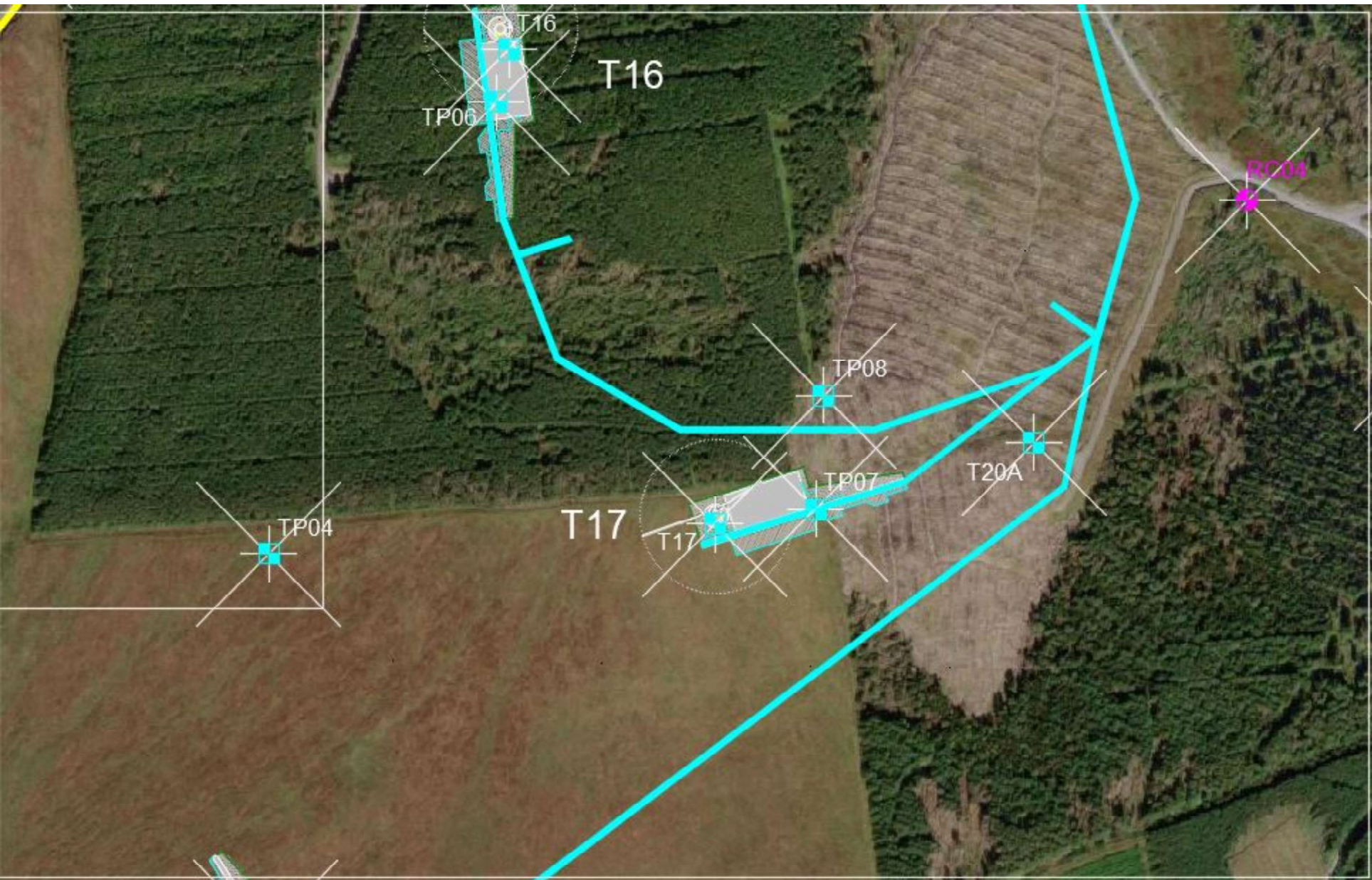


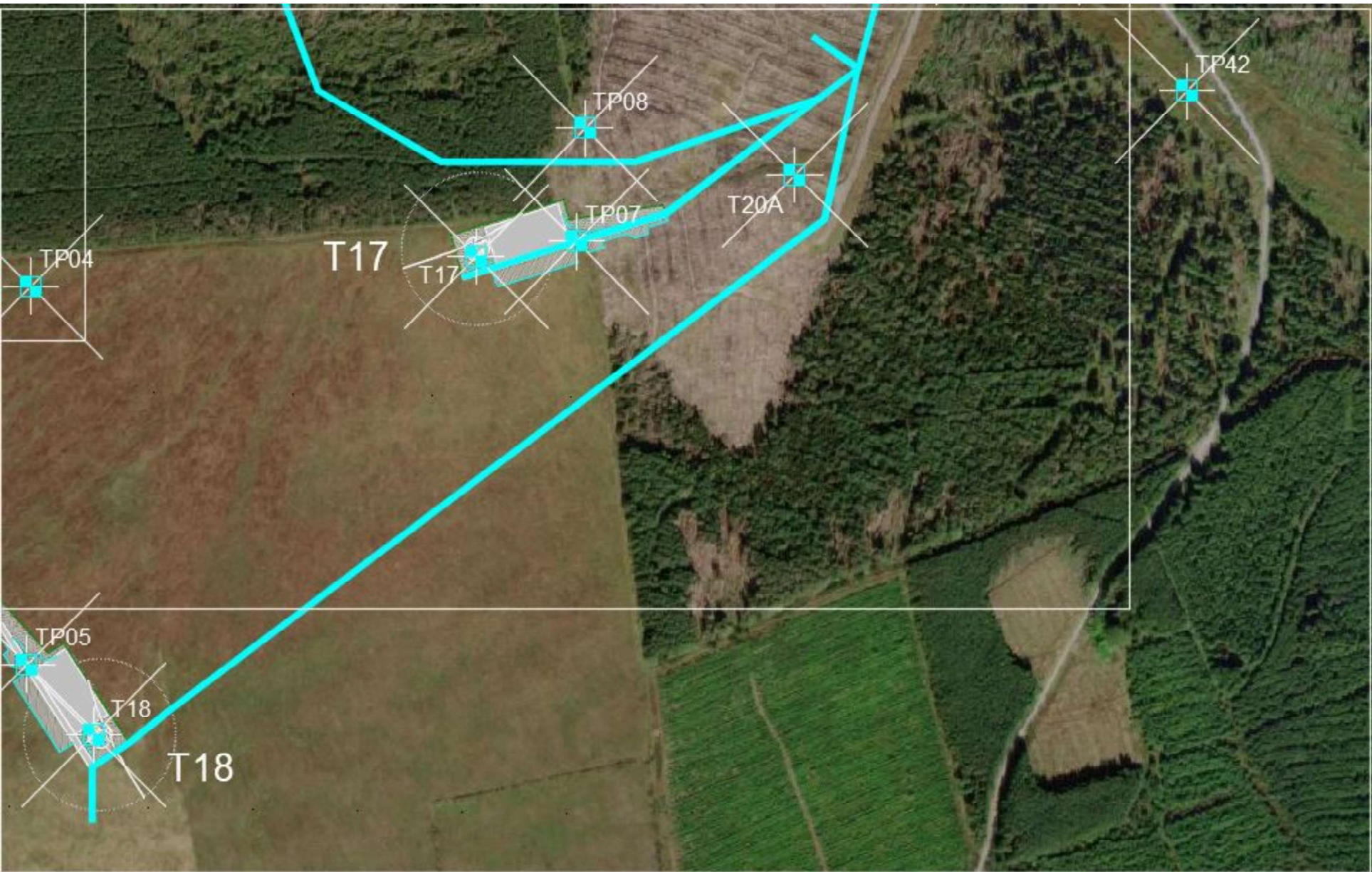




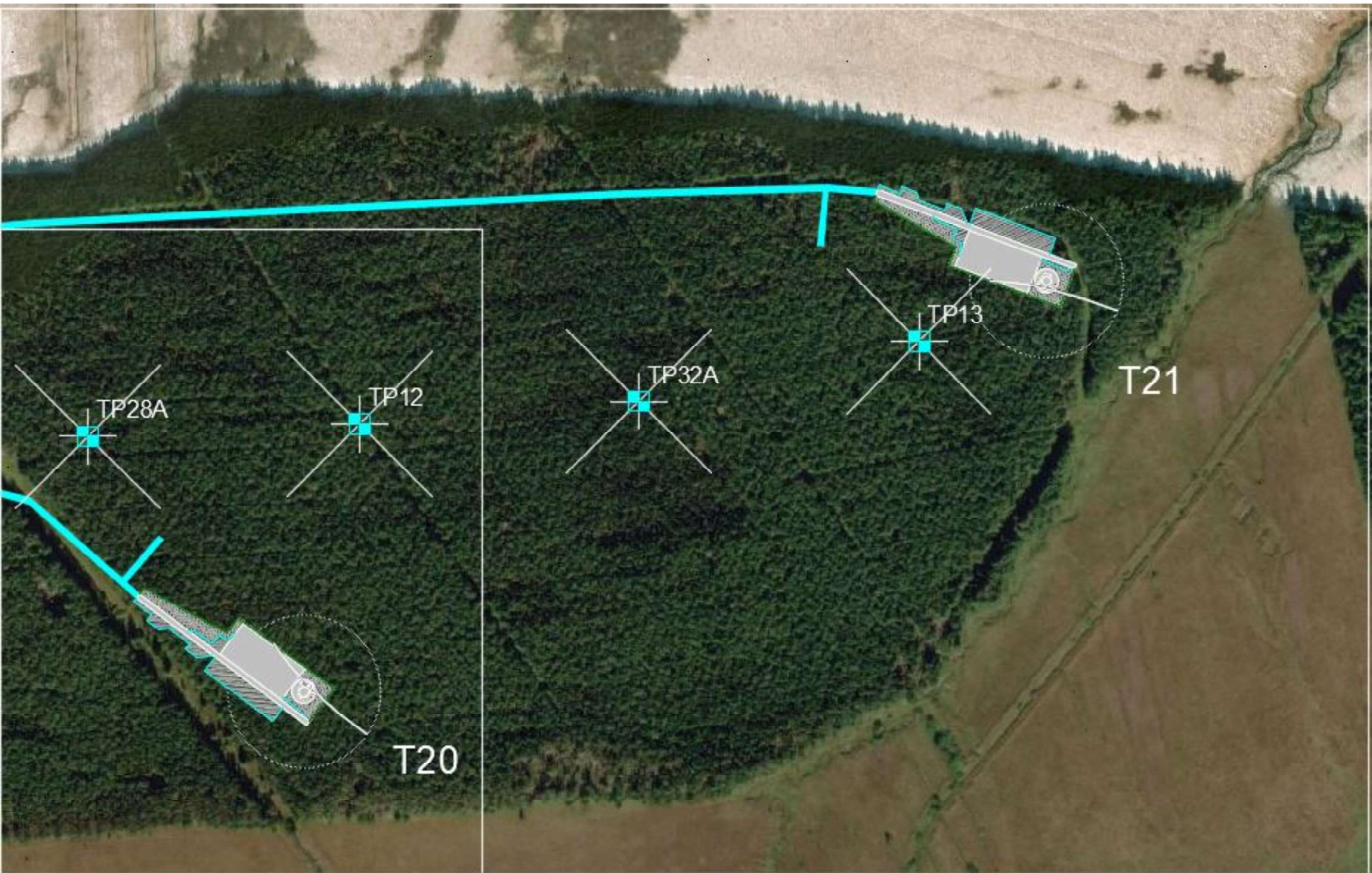












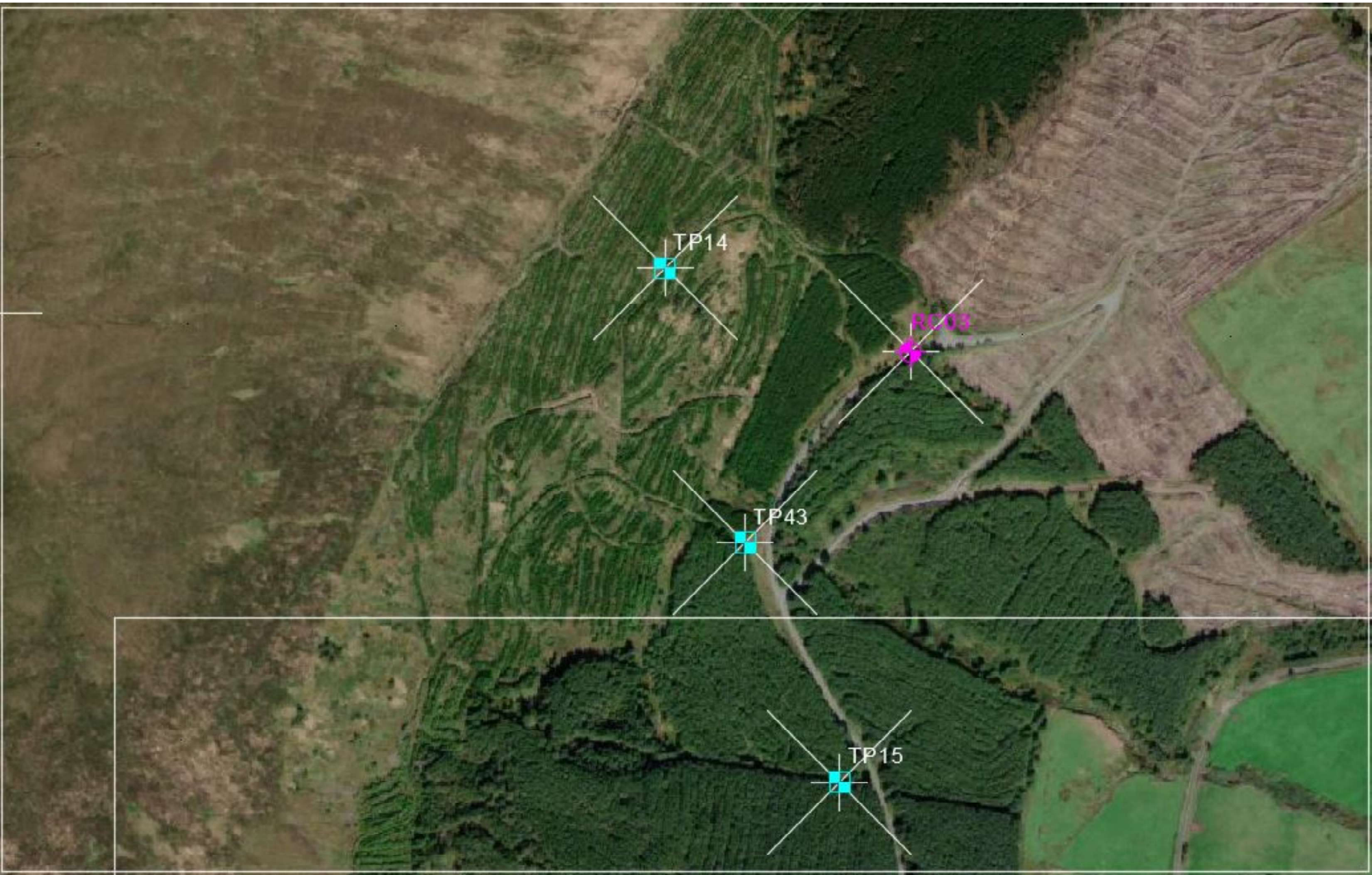


TP15

RC02

TP16

RC01



TP14

RC03

TP43

TP15

Appendix 07

AGS Data