

## The Abergelli Power Gas Fired Generating Station Order

## 6.3 Environmental Statement Figures Part I

**Planning Act 2008** 

The Infrastructure Planning

(Applications: Prescribed Forms and Procedure) Regulations 2009

PINS Reference Number: EN010069

Document Reference: 6.3

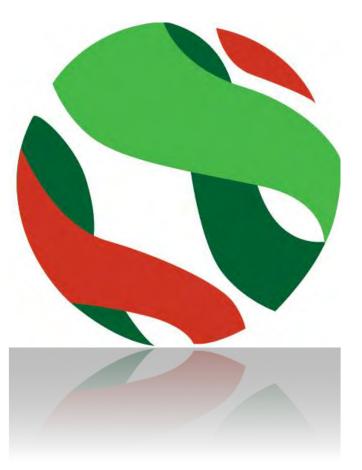
**Regulation Number:** 5(2)(a), 5(2)(l) Figures 8.2 & 9.5, 5(2)(m)

Figures 13.1 & 13.2 & Infrastructure Planning (Environmental Impact Assessment) Regulations 2009

Author: AECOM

Revision Date Description

0 May 2018 Submission Version



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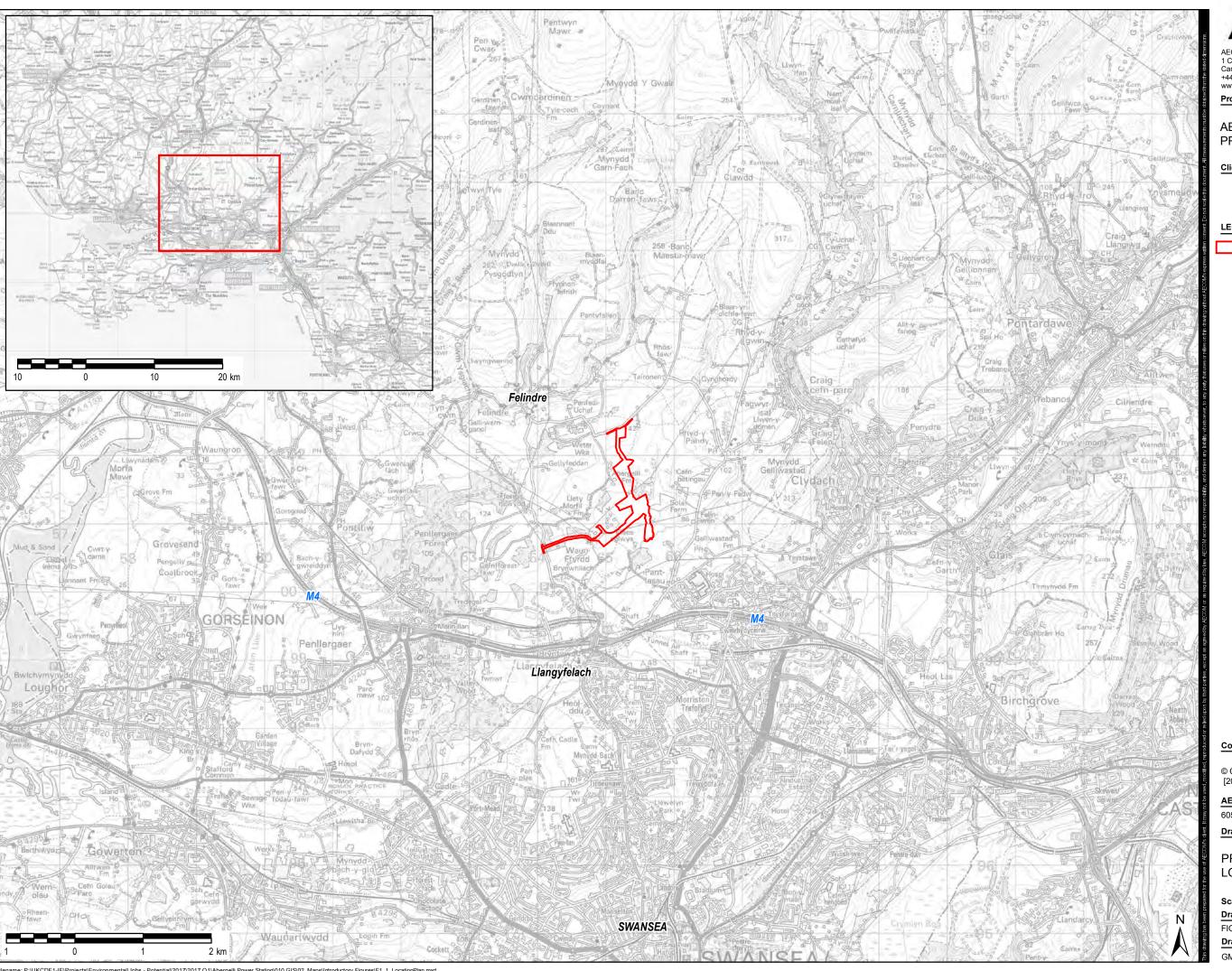
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**Project Title:** 

ABERGELLI POWER **PROJECT** 

Client:



LEGEND

Project Site Boundary

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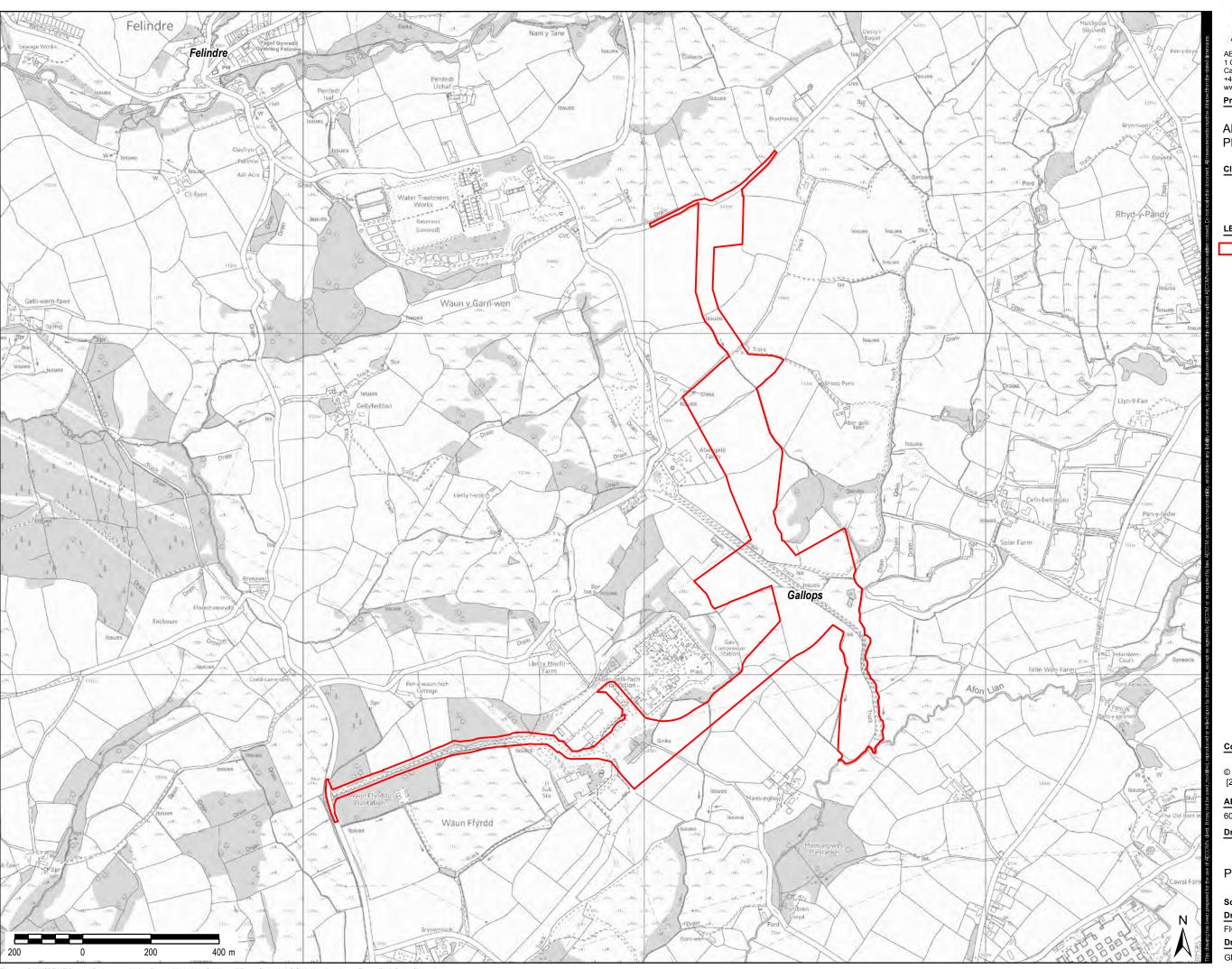
Drawing Title:

PROJECT SITE **LOCATION PLAN** 

Scale at A3: 1:50,000

Drawing No: FIGURE 1.1 Drawn: Chk'd: App'd: Date:

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LEGEND

Project Site Boundary

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PROJECT SITE

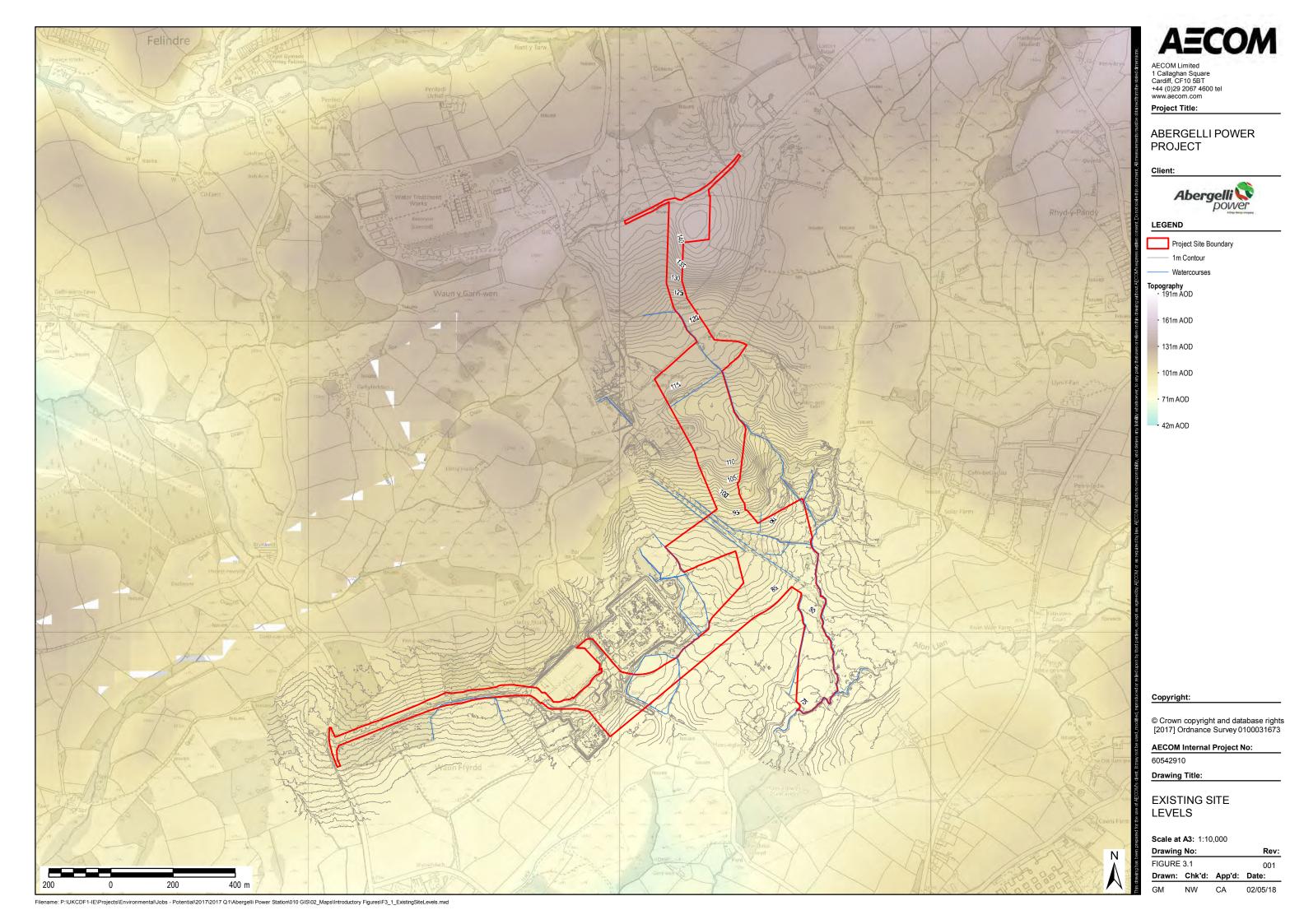
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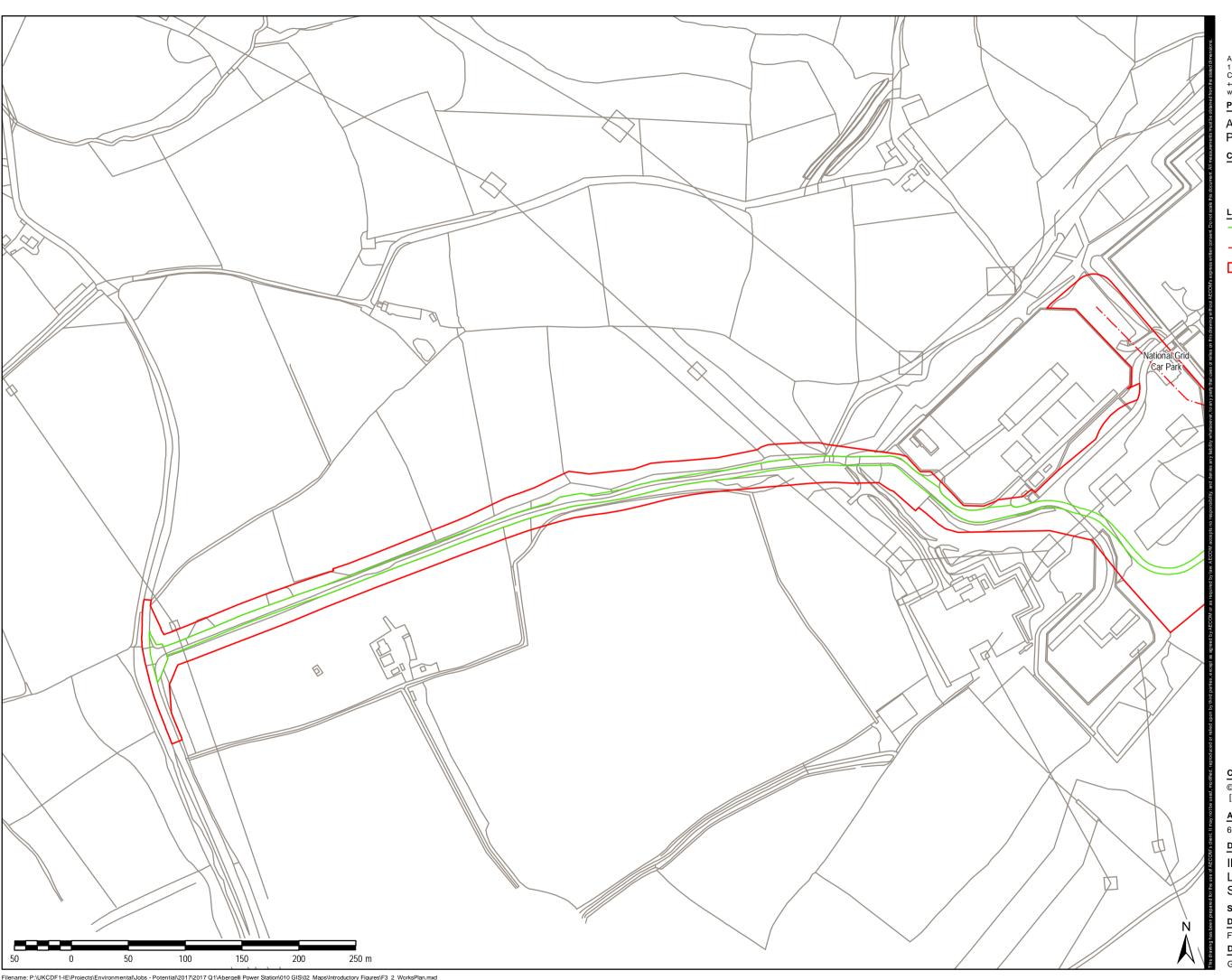
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Project Title:

#### ABERGELLI POWER **PROJECT**



#### LEGEND

- Access Road

Electrical Connection (400kV Cable)

Project Site Boundary

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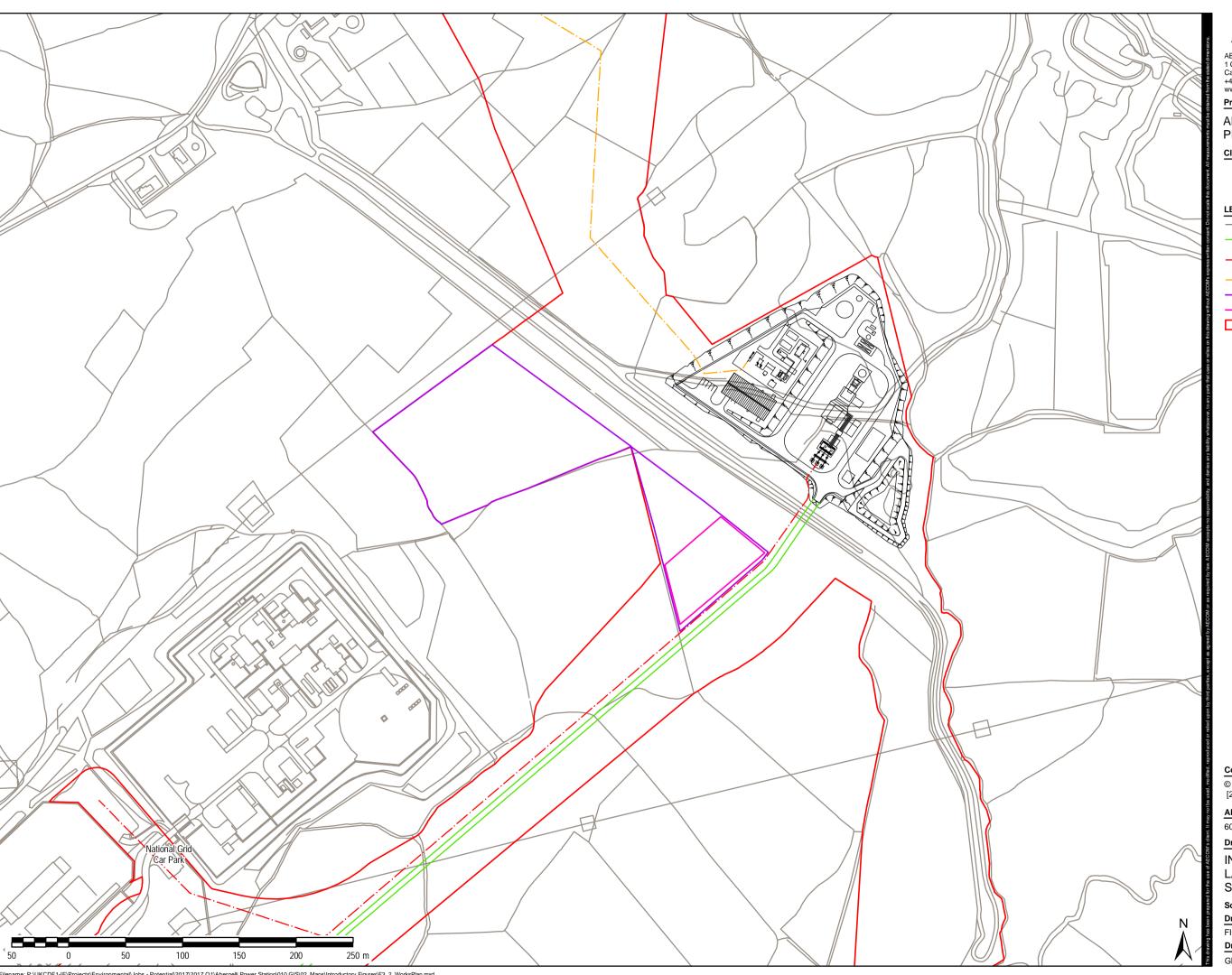
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INDICATIVE PROJECT LAYOUT SHEET 1 OF 3

#### Scale at A3: 1:3,000

Drawing No: FIGURE 3.2 Drawn: Chk'd: App'd: Date:

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Project Title:

#### ABERGELLI POWER **PROJECT**



#### LEGEND

Generating Equipment Site

Access Road

Electrical Connection (400kV Cable)

--- Gas Connection

\_\_\_\_ Laydown

Maintenance Compound

Project Site Boundary

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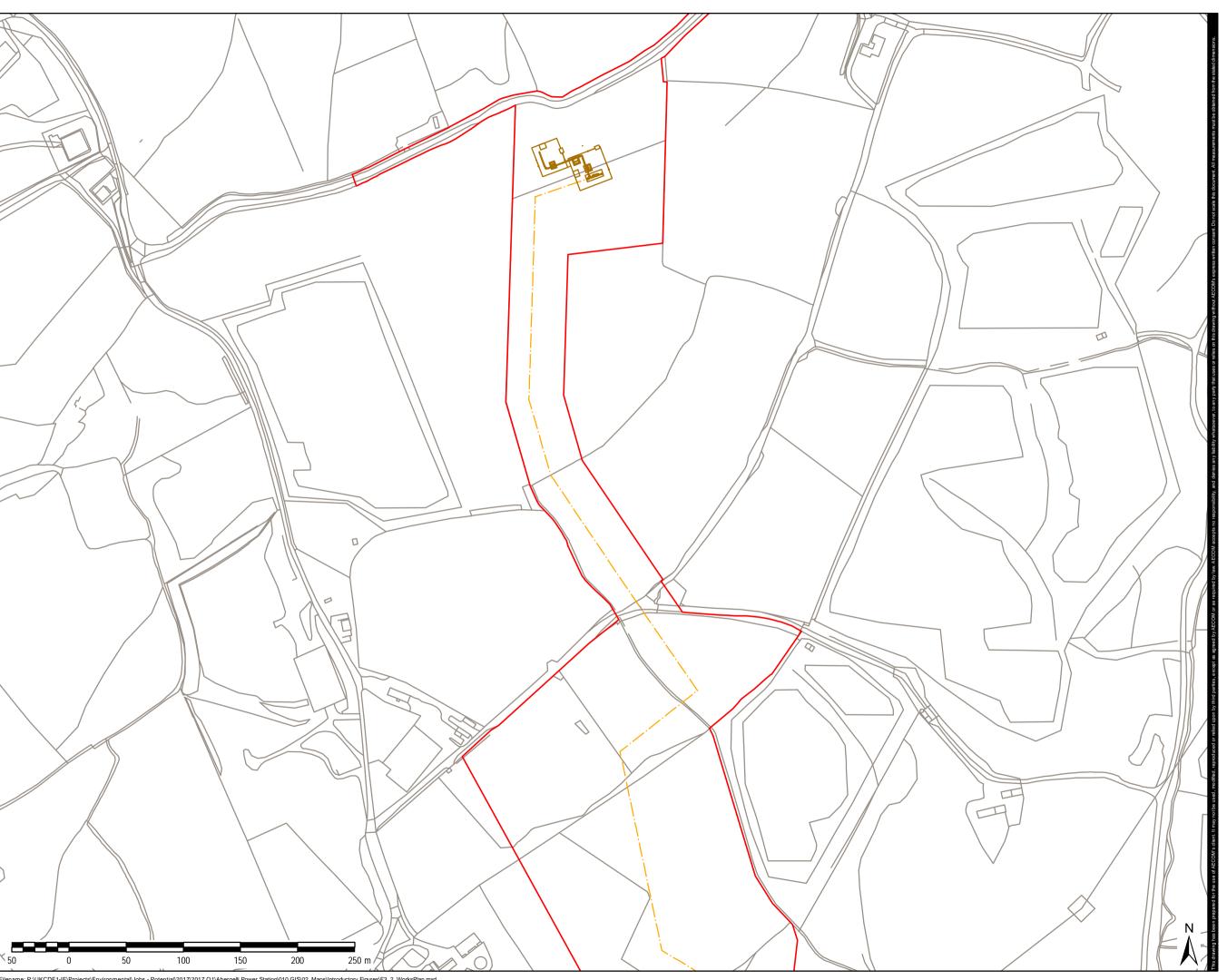
INDICATIVE PROJECT LAYOUT SHEET 2 OF 3

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Project Title:

ABERGELLI POWER PROJECT



LEGEND

Above Ground Installation (AGI)

--- Gas Connection

Project Site Boundary

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INDICATIVE PROJECT LAYOUT SHEET 3 OF 3

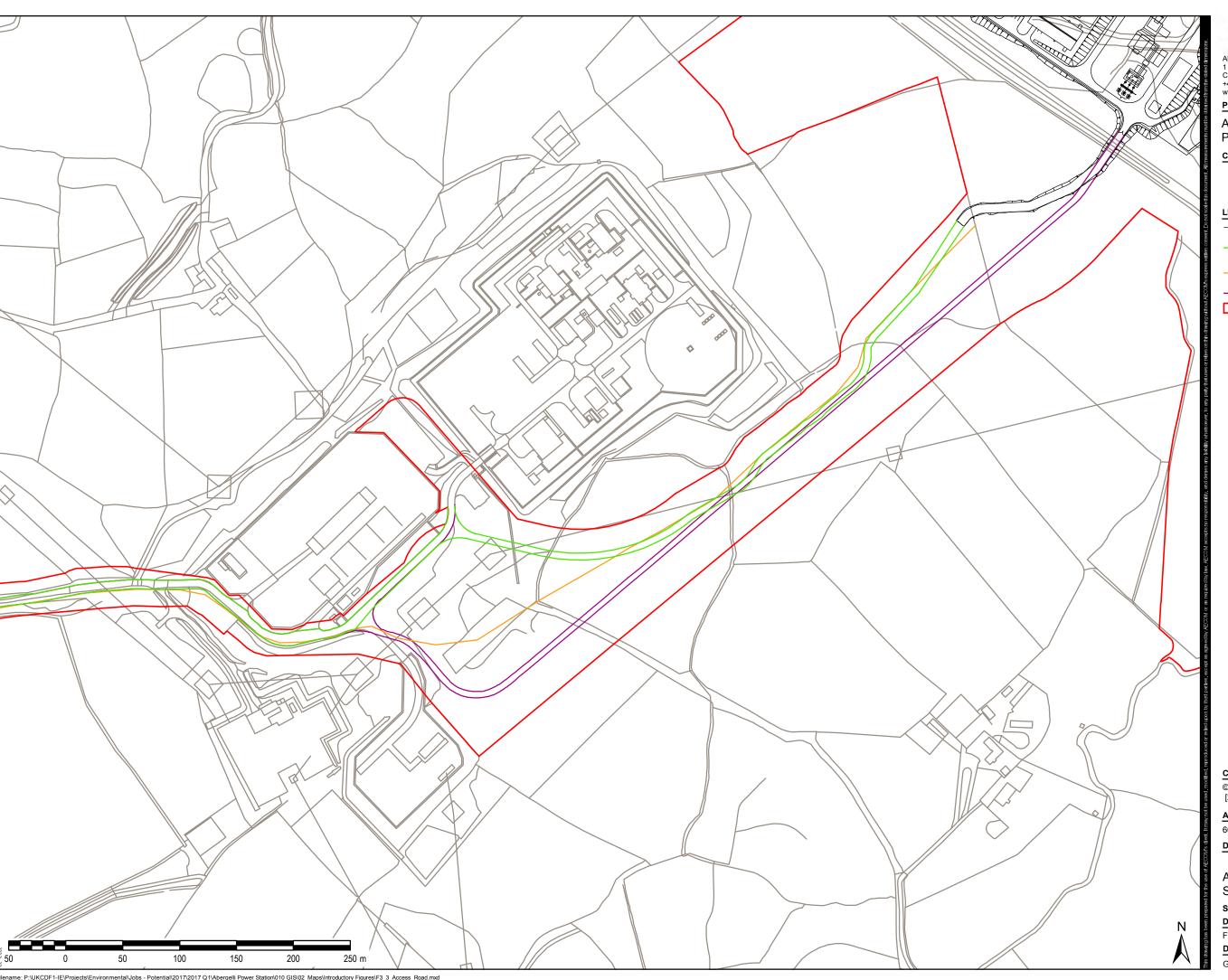
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Project Title:

#### ABERGELLI POWER PROJECT

Client:



#### LEGEND

— Generating Equipment Site

2018 PEIR Option A Access

2018 PEIR Option B Access Road

----- Revised Option B Access Road

Project Site Boundary

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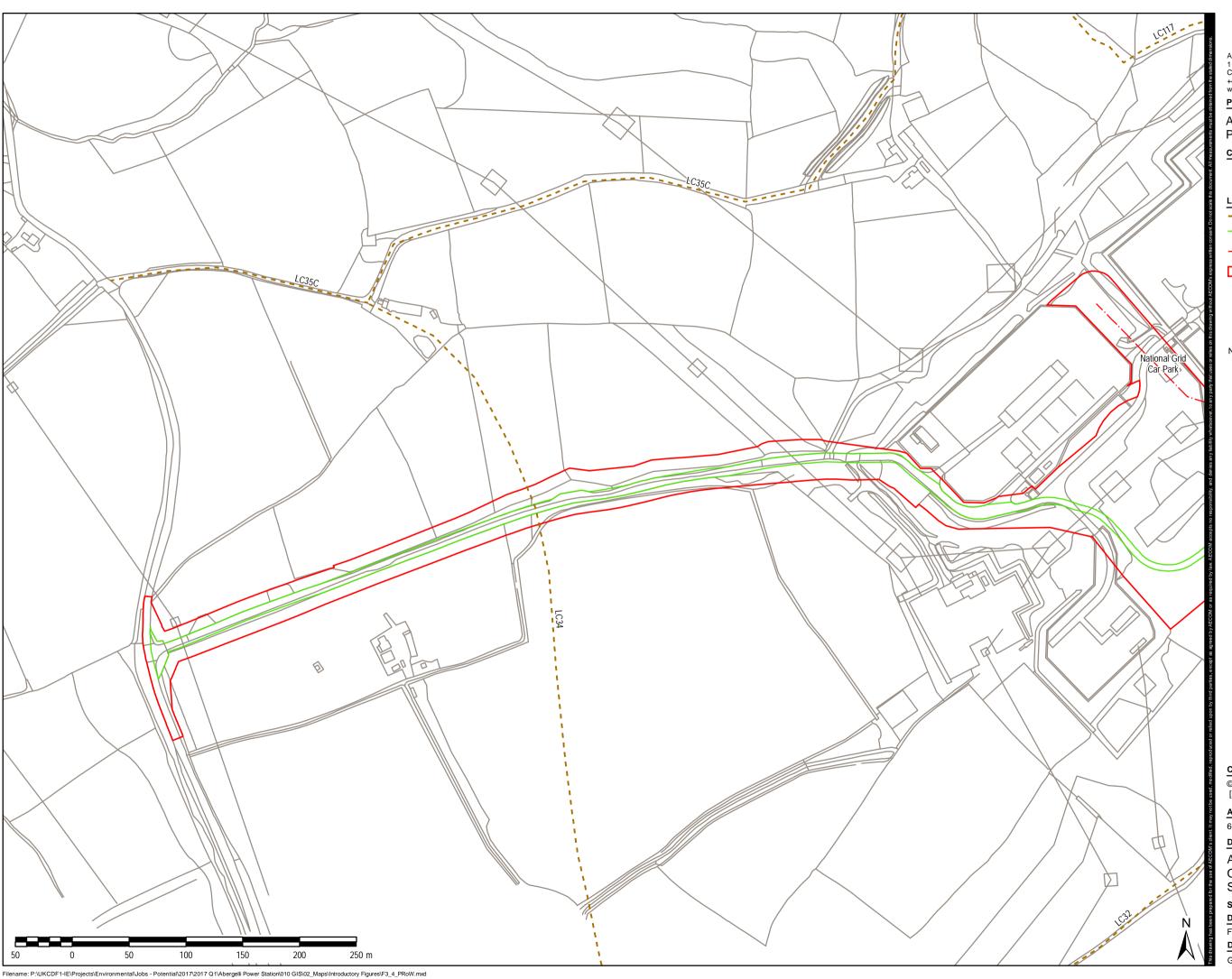
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#### ACCESS ROAD UPDATE SINCE 2018 PEIR

Scale at A3: 1:3,000

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Project Title:

## ABERGELLI POWER PROJECT

Client



LEGEND

- - - Footpath

Access Road

\_\_\_ Electrical Connection (400kV Cable)

Project Site Boundary

Note: Indicative Project Layout

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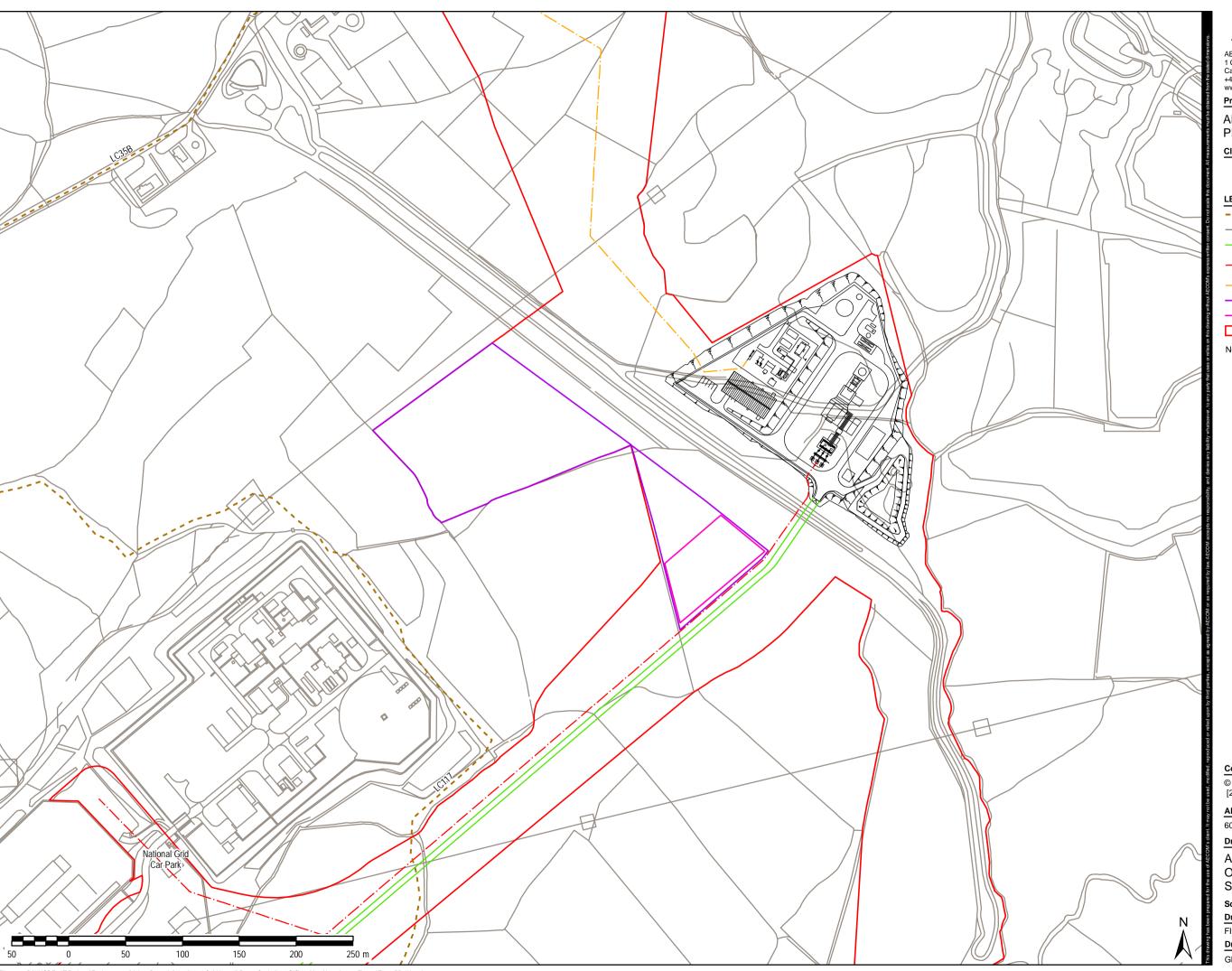
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ACCESS AND RIGHTS OF WAY PLAN SHEET 1 OF 3

Scale at A3: 1:3,000

Drawing No:Rev:FIGURE 3.4005Drawn:Chk'd:App'd:Date:

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Project Title:

## ABERGELLI POWER PROJECT

Client



#### LEGEND

- - Footpath
- ---- Generating Equipment Site
- --- Access Road
- Electrical Connection (400kV Cable)
- --- Gas Connection
- Laydown Area
- ---- Maintenance Compound
  - \_
- Project Site Boundary

Note: Indicative Project Layout

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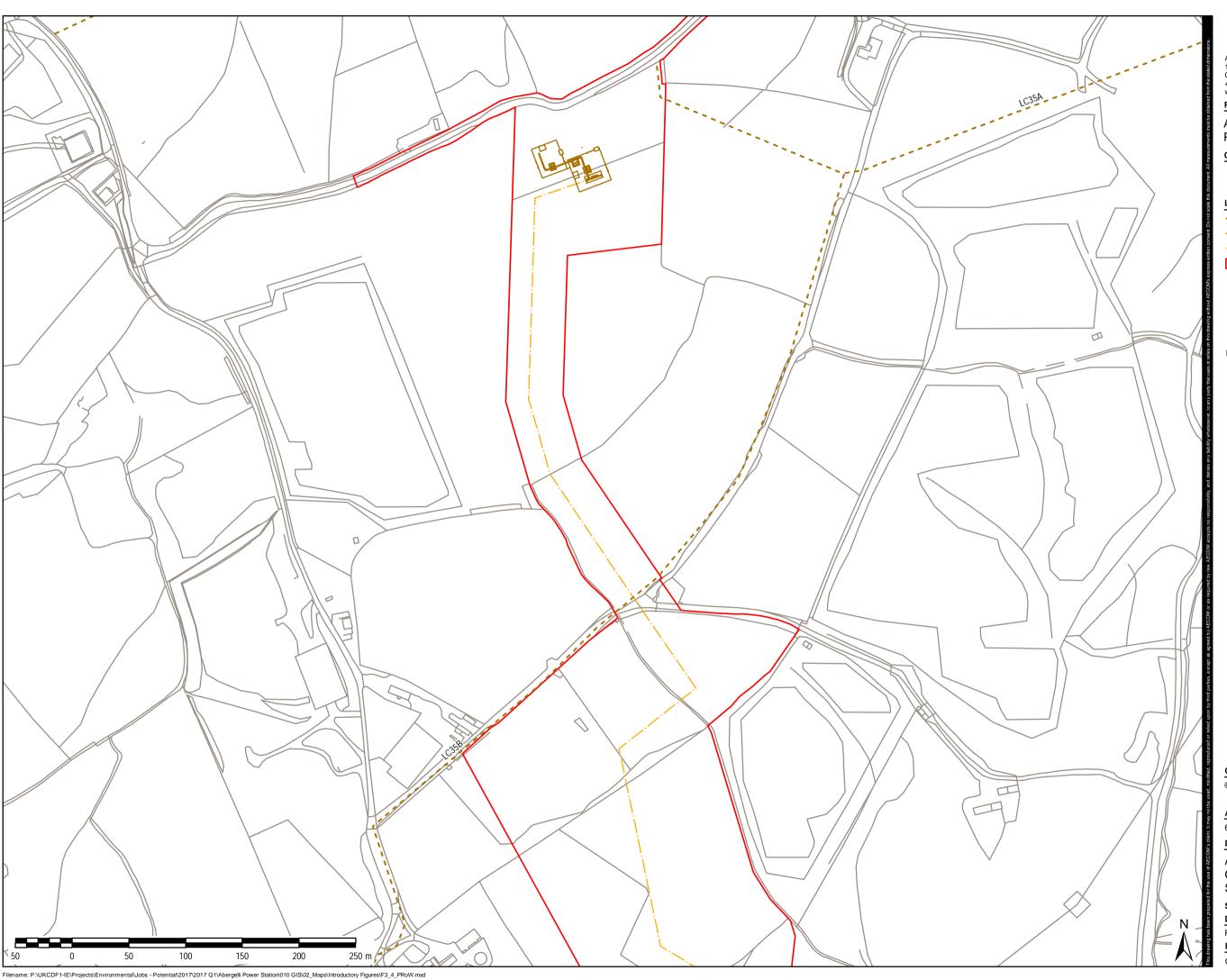
ACCESS AND RIGHTS OF WAY PLAN SHEET 2 OF 3

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Project Title:

ABERGELLI POWER **PROJECT** 



LEGEND

- - - Footpath

Above Ground Installation (AGI)

--- Gas Connection

Project Site Boundary

Note: Indicative Project Layout

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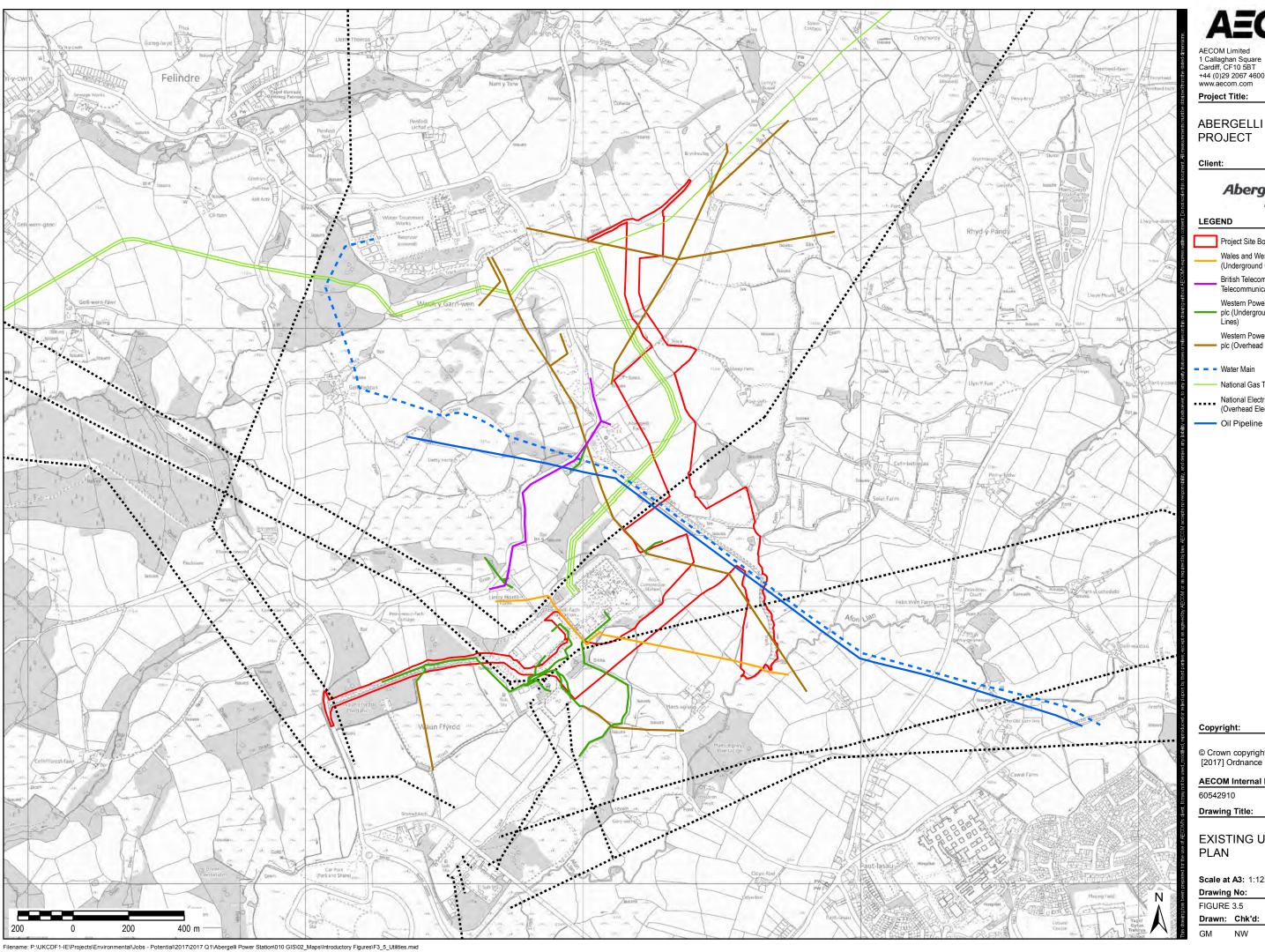
ACCESS AND RIGHTS OF WAY PLAN SHEET 3 OF 3

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## ABERGELLI POWER



Project Site Boundary

Wales and West Utilities Limited (Underground Gas Lines)

British Telecommunications plc (Overhead Telecommunications Lines)

Western Power Distribution (South Wales) plc (Underground Electricity Distribution

Western Power Distribution (South Wales) plc (Overhead Electricity Distribution Lines)

National Gas Transmission System

National Electricity Transmission (Overhead Electricity Transmission Lines)

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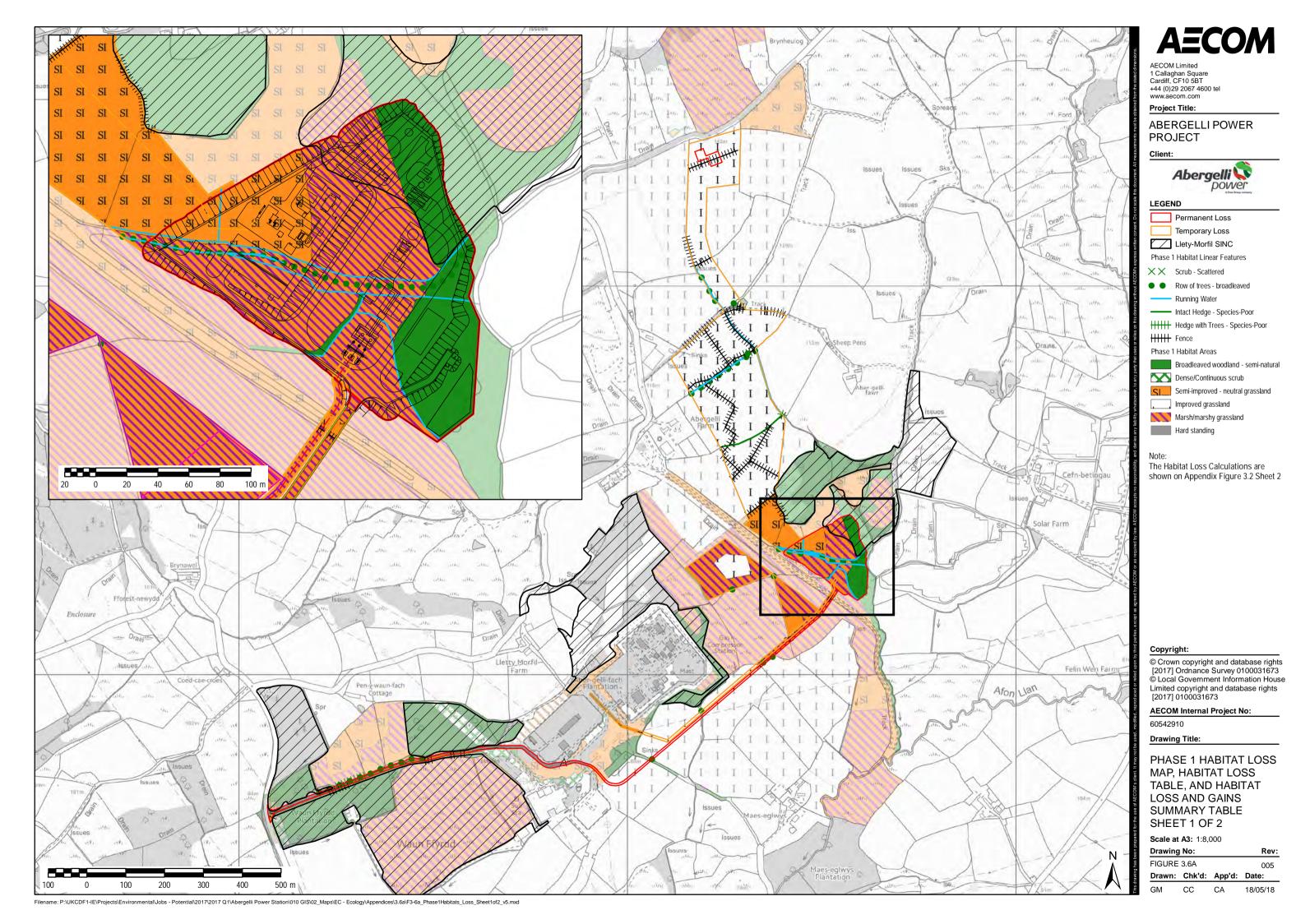
#### **AECOM Internal Project No:**

## **EXISTING UTILITIES**

Scale at A3: 1:12,000

Rev:

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### **TABLE 1: HABITAT LOSS CALCULATIONS**

| Habitat Area                           | Existing (m2) within Project Site Boundary | Power Generation Plant Loss (Permanent) (m2) | Power Generation Plant Loss (Temporary) (m2) | Gas Connection Loss (Temporary) (m2) | Electrical Connection Loss (Temporary) (m2) |
|--|--|--|--|--------------------------------------|---|
| Broad leaved semi natural woodland     | 7924.01                                    | 5189.12                                      | 0  | 0                                    | 0   |
| Broad leaved plantation woodland       | 201.03                                     | 0  | 0  | 0                                    | 0   |
| Dense/continuous scrub                 | 1766.44                                    | 123.07                                       | 0  | 189.17                               | 53.99                                       |
| Scattered scrub                        | 386.34                                     | 0  | 0  | 0                                    | 0   |
| Semi-improved - neutral grassland      | 49,497.11                                  | 6489.72                                      | 1545.41                                      | 10,242.03                            | 747.44                                      |
| Improved grassland                     | 165,403.02                                 | 2707.85                                      | 4375.12                                      | 121,015.77                           | 2222.91                                     |
| Marsh/Marshy grassland                 | 87,163.71                                  | 14,518.36                                    | 19,375.36                                    | 139.87                               | 1537.84                                     |
| Tall ruderal other                     | 159.55                                     | 0  | 0  | 0                                    | 0   |
| Habitat Linear                         | Existing (m2) within Project Site Boundary | Power Generation Plant Loss (Permanent) (m2) | Power Generation Plant Loss (Temporary) (m2) | Gas Connection Loss (Temporary) (m2) | Electrical Connection Loss (Temporary) (m2) |
| Scrub - Scattered                      | 0.41                                       | 0  | 0  | 0.41                                 | 0   |
| Row of Broadleaved Trees               | 1399.87                                    | 525.62                                       | 42.66  | 348.89                               | 14.68                                       |
| Running Water                          | 2589.7                                     | 695.97                                       | 102.79                                       | 627.59                               | 6.87  |
| Intact Hedge - Species-Poor            | 236.01                                     | 56.34  | 0  | 179.67                               | 0   |
| Hedge with Trees - Native Species-Rich | 69.75                                      | 0  | 0  | 0                                    | 0   |
| Hedge with Trees - Species-Poor        | 90.8                                       | 80.8   | 0  | 0                                    | 0   |
| Earth Bank                             | 273.89                                     | 0  | 0  | 0                                    | 0   |
| Ancient Woodland                       | Existing (m2) within Project Site Boundary | Power Generation Plant Loss (Permanent) (m2) | Power Generation Plant Loss (Temporary) (m2) | Gas Connection Loss (Temporary) (m2) | Electrical Connection Loss (Temporary) (m2) |
| Ancient Woodland                       | 10,564.81                                  | 0  | 0  | 0                                    | 0   |
|  |  | , , , ,                                      | Power Generation Plant Loss (Temporary) (m2) | Gas Connection Loss (Temporary) (m2) | Electrical Connection Loss (Temporary) (m2) |
| Lletty-Morfil SINC                     | 16,835.27                                  | 4306.64                                      | 0  | 0.36                                 | 0   |
| Habitat Areas within SINCs             | Existing (m2) within Project Site Boundary | Power Generation Plant Loss (Permanent) (m2) | Power Generation Plant Loss (Temporary) (m2) | Gas Connection Loss (Temporary) (m2) | Electrical Connection Loss (Temporary) (m2) |
| Broadleaved semi natural woodland      | 9635.42                                    | 2610.78                                      | 0  | 0.36                                 | 0.36  |
| Dense/continuous scrub                 | 711.47                                     | 0  | 0  | 0                                    | 0   |
| Semi-improved - neutral grassland      | 1266.95                                    | 0  | 0  | 0                                    | 0   |
| Improved grassland                     | 52.68                                      | 0  | 0  | 0                                    | 0   |
| Marsh/Marshy grassland                 | 3641.92                                    | 1695.86                                      | 0  | 0                                    | 0   |
| Tall ruderal other                     | 5.17                                       | 0  | 0  | 0                                    | 0   |
| Habitat Linear within SINCs            | Existing (m2) within Project Site Boundary | Power Generation Plant Loss (Permanent)      | Power Generation Plant Loss (Temporary)      | Gas Connection Loss (Temporary)      | Electrical Connection Loss (Temporary)      |
| Row of Broadleaved Trees               | 260.72                                     | 37.26  | 0  | 0                                    | 0   |
| Running Water                          | 227.38                                     | 0  | 0  | 0                                    | 0   |
| Hedge with Trees - Native Species-Rich | 1.79                                       | 0  | 0  | 0                                    | 0   |

#### TABLE 2 APPROXIMATE HABITAT LOSS AND GAINS SUMMARY\*

### **Habitat Loss**

### Habitat Replacement

| Habitat                            | Length/Area/Number      | Habitat                                      | Length/Area            |
|------------------------------------|-------------------------|--|------------------------|
| Hedgerows and row of trees         | 700.02m                 | Hedgerow with trees                          | 912.85m                |
| Semi-improved and marshy grassland | 21,008.08m <sup>2</sup> | Semi-improved grassland and marshy grassland | 25030.11m <sup>2</sup> |
| Woodland and scrub                 | 7919.97m²               | Woodland planting                            | 4178.01m <sup>2</sup>  |
|                                    |                         | Native tree planting                         | 6564.08m <sup>2</sup>  |
| Ponds                              | 2 (no.)                 | Attenuation pond                             | 179.91m²               |
|                                    |                         | Wildlife ponds                               | 8m² minimum            |

<sup>\*</sup> Calculations are approximate and subject to detailed design.

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Client:



LEGEND

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PHASE 1 HABITAT LOSS MAP, HABITAT LOSS TABLE, AND HABITAT LOSS AND GAINS SUMMARY TABLE SHEET 2 OF 2

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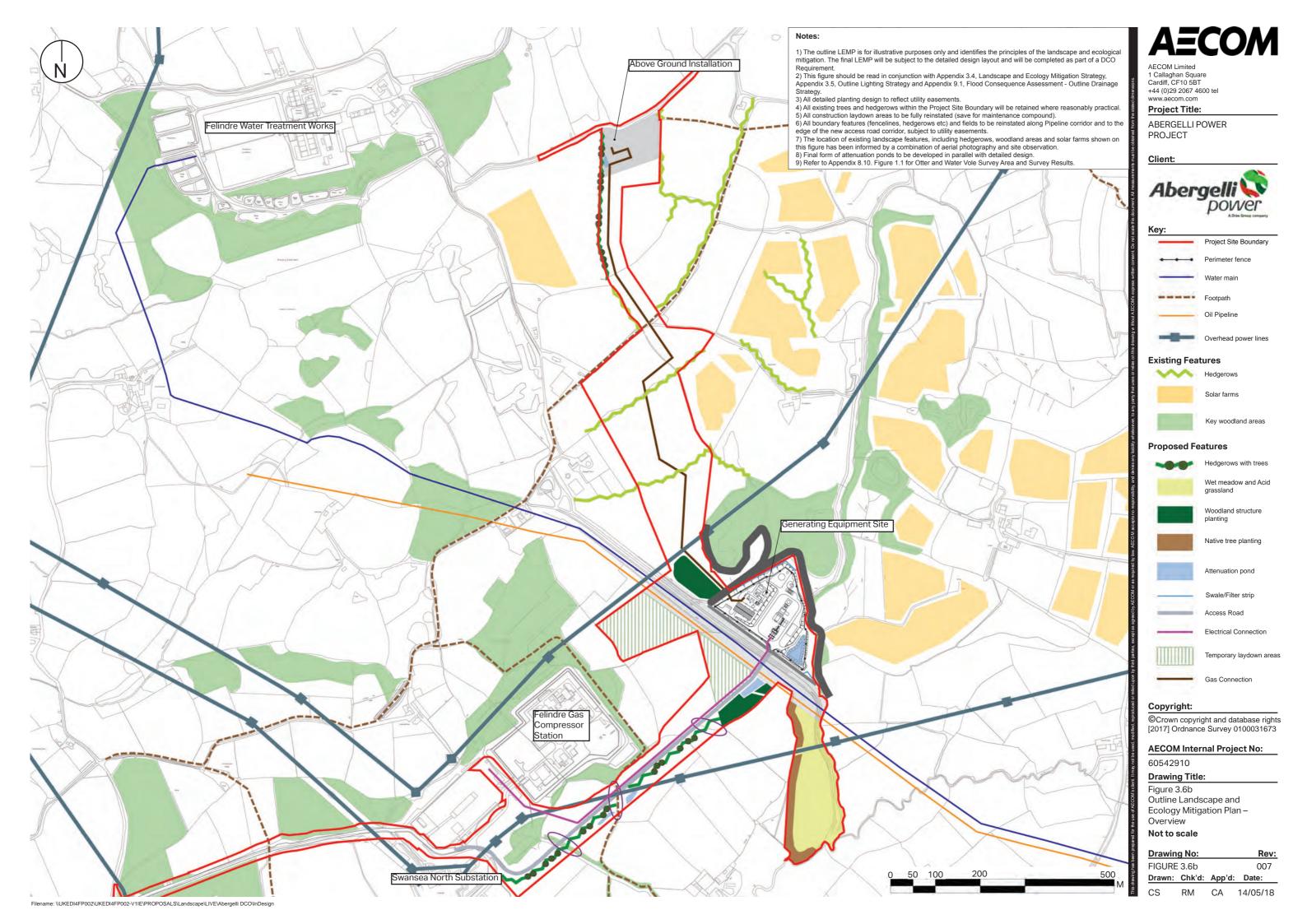
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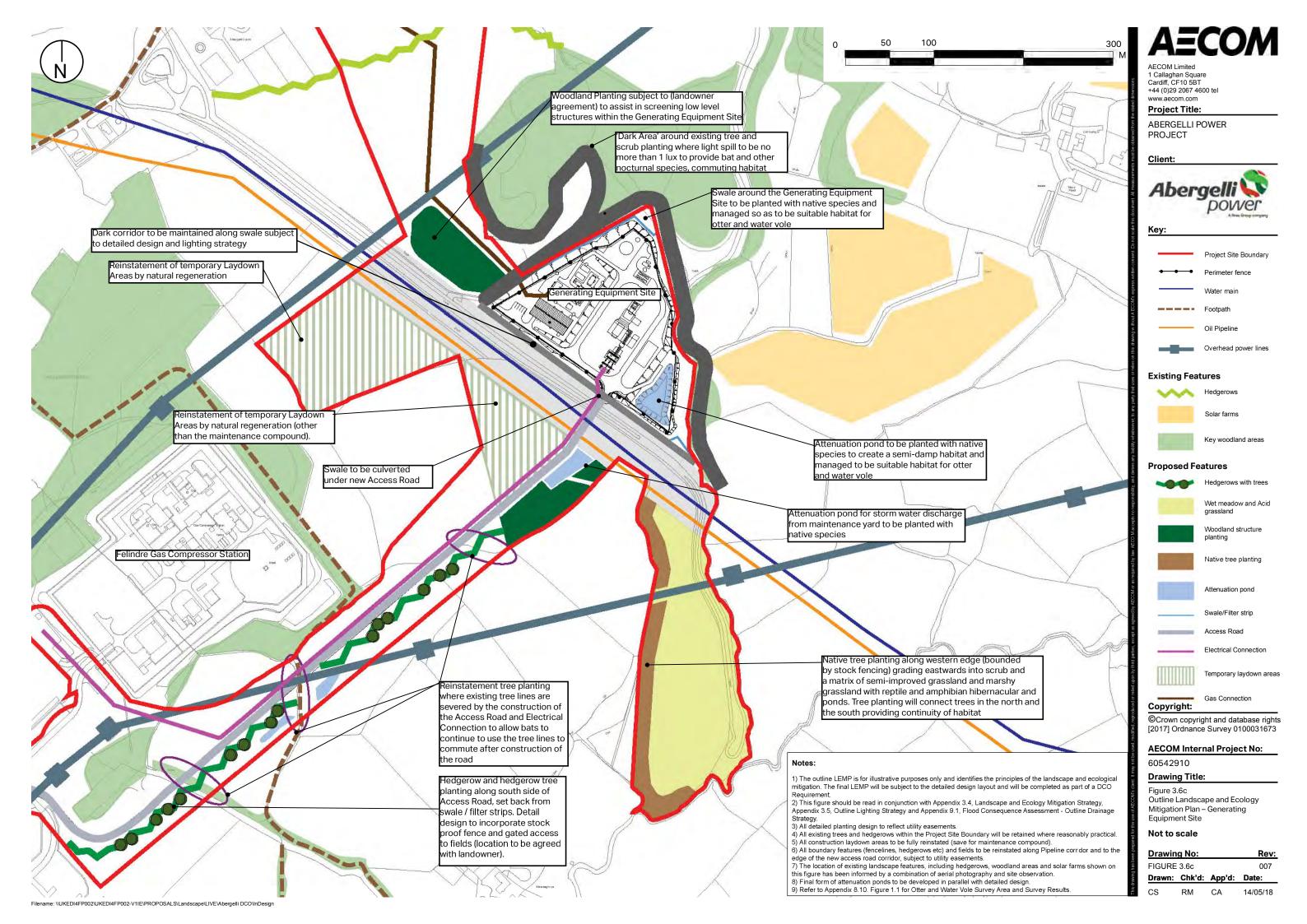
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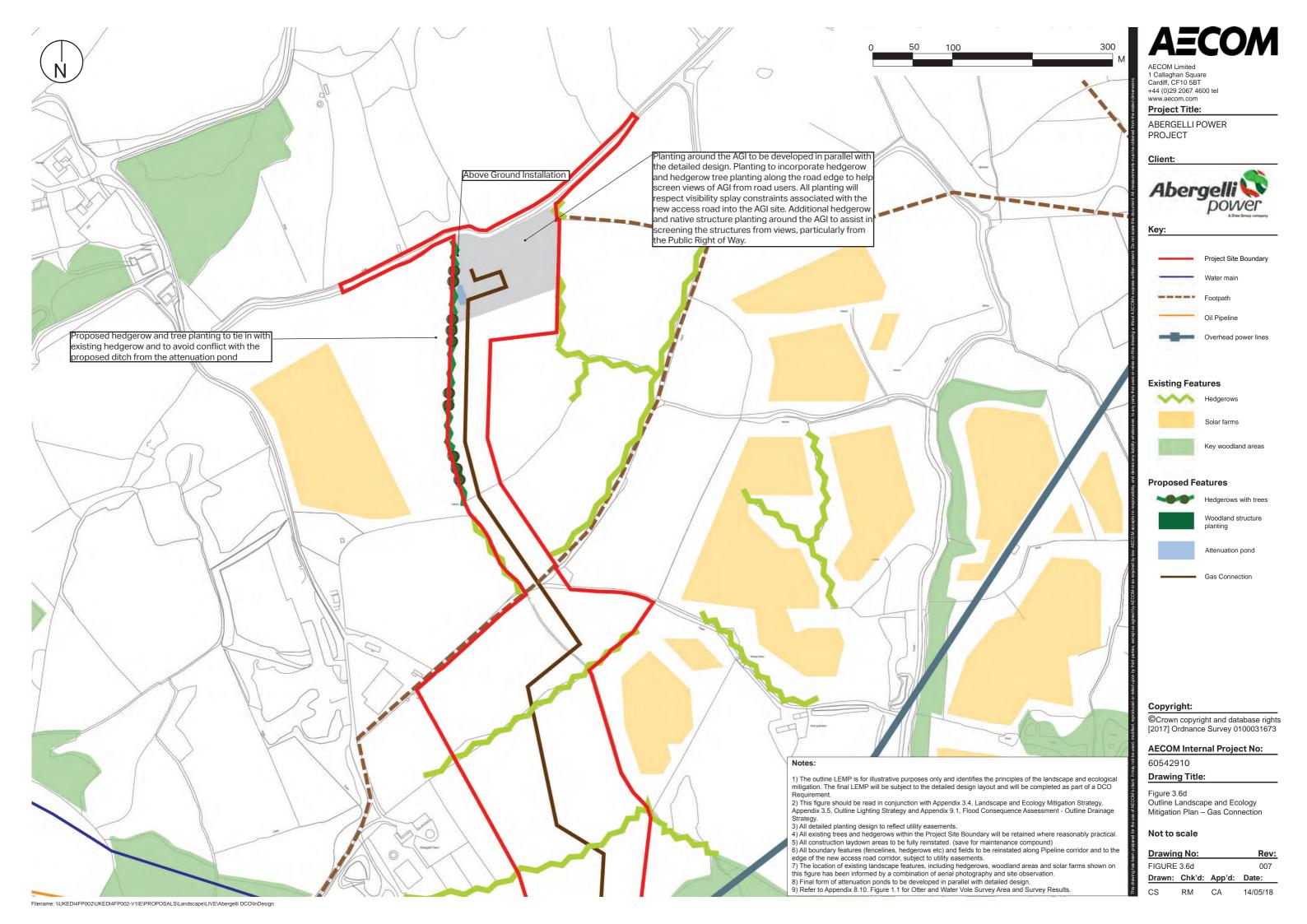
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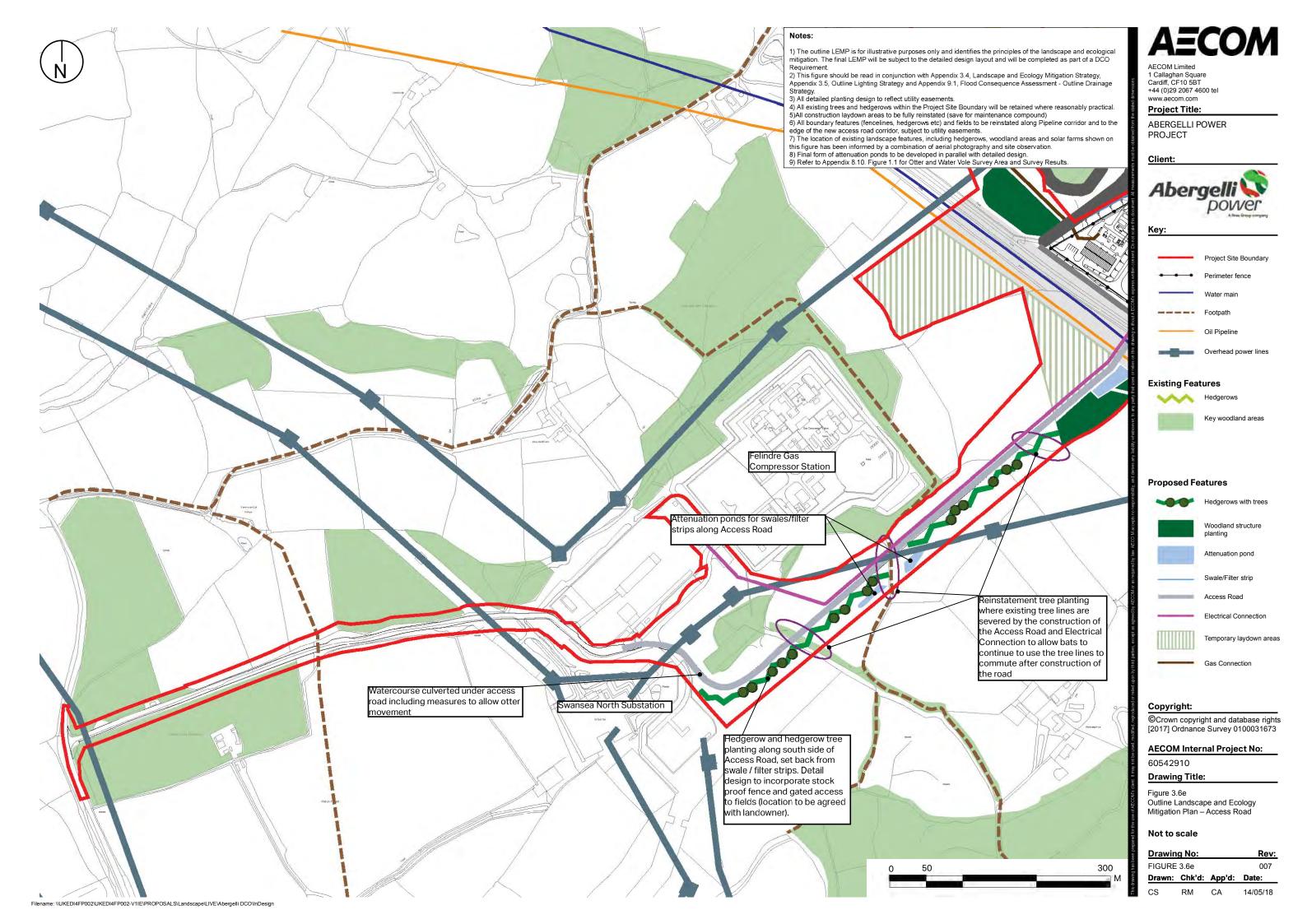
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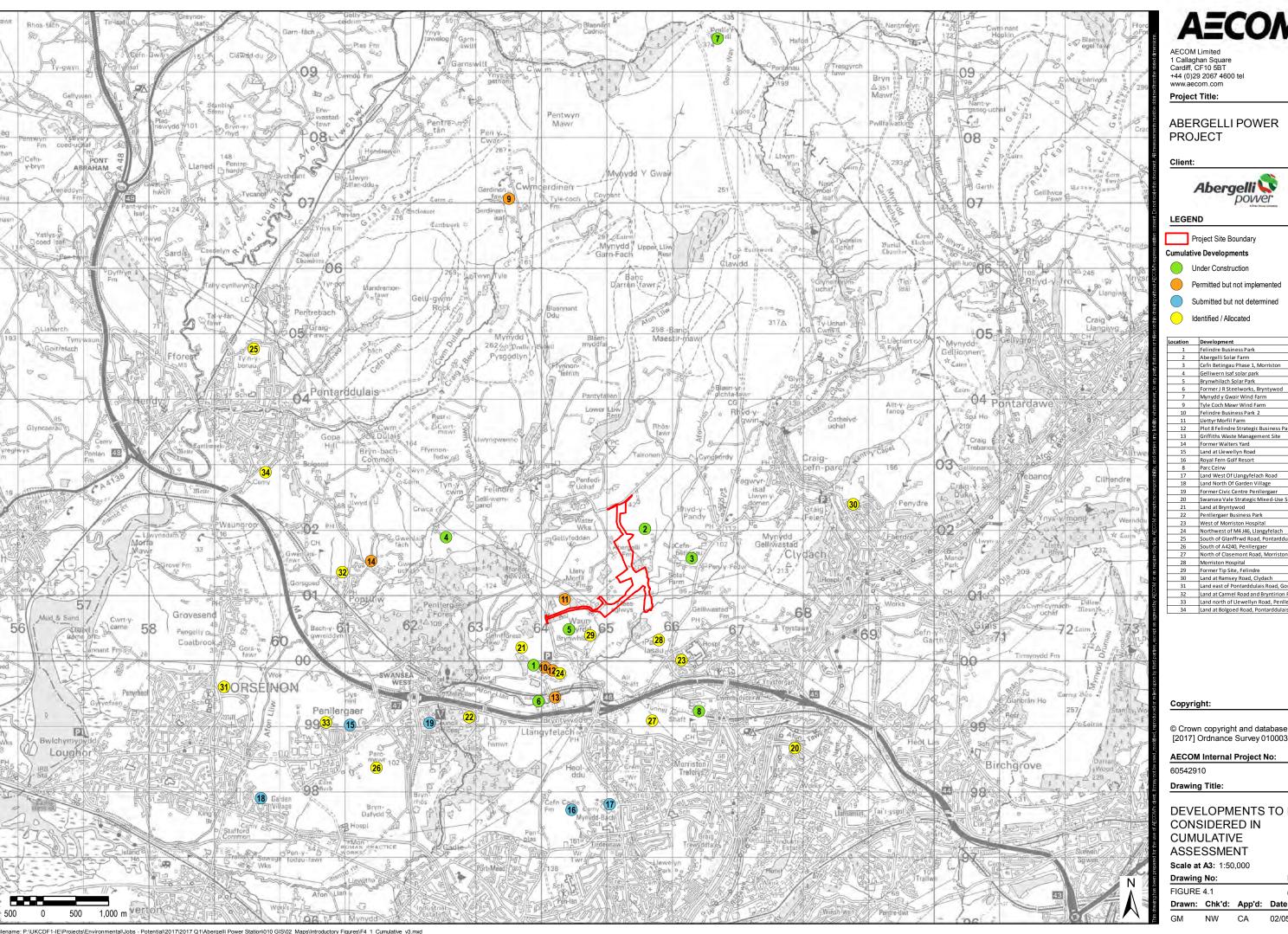
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Project Title:

**ABERGELLI POWER PROJECT** 

Client:



LEGEND

Project Site Boundary

**Cumulative Developments** 

Under Construction

Permitted but not implemented

Submitted but not determined

Identified / Allocated

| 2  | Abergelli Solar Farm                       |
|----|--|
| 3  | Cefn Betingau Phase 1, Morriston           |
| 4  | Gelliwern Isaf solar park                  |
| 5  | Brynwhilach Solar Park                     |
| 6  | Former J R Steelworks, Bryntywod           |
| 7  | Mynydd y Gwair Wind Farm                   |
| 9  | Tyle Coch Mawr Wind Farm                   |
| 10 | Felindre Business Park 2                   |
| 11 | Llettyr Morfil Farm                        |
| 12 | Plot 8 Felindre Strategic Business Park    |
| 13 | Griffiths Waste Management Site            |
| 14 | Former Walters Yard                        |
| 15 | Land at Liewellyn Road                     |
| 16 | Royal Fern Golf Resort                     |
| 8  | Parc Ceirw                                 |
| 17 | Land West Of Llangyfelach Road             |
| 18 | Land North Of Garden Village               |
| 19 | Former Civic Centre Penllergaer            |
| 20 | Swansea Vale Strategic Mixed-Use Site      |
| 21 | Land at Bryntywod                          |
| 22 | Penllergaer Business Park                  |
| 23 | West of Morriston Hospital                 |
| 24 | Northwest of M4 J46, Llangyfelach          |
| 25 | South of Glanffrwd Road, Pontarddulais     |
| 26 | South of A4240, Penllergaer                |
| 27 | North of Clasemont Road, Morriston         |
| 28 | Morriston Hospital                         |
| 29 | Former Tip Site, Felindre                  |
| 30 | Land at Ramsey Road, Clydach               |
| 31 | Land east of Pontarddulais Road, Gorseinon |
| 32 | Land at Carmel Road and Bryntirion Road    |
| 33 | Land north of Llewellyn Road, Penllergaer  |
|    |  |

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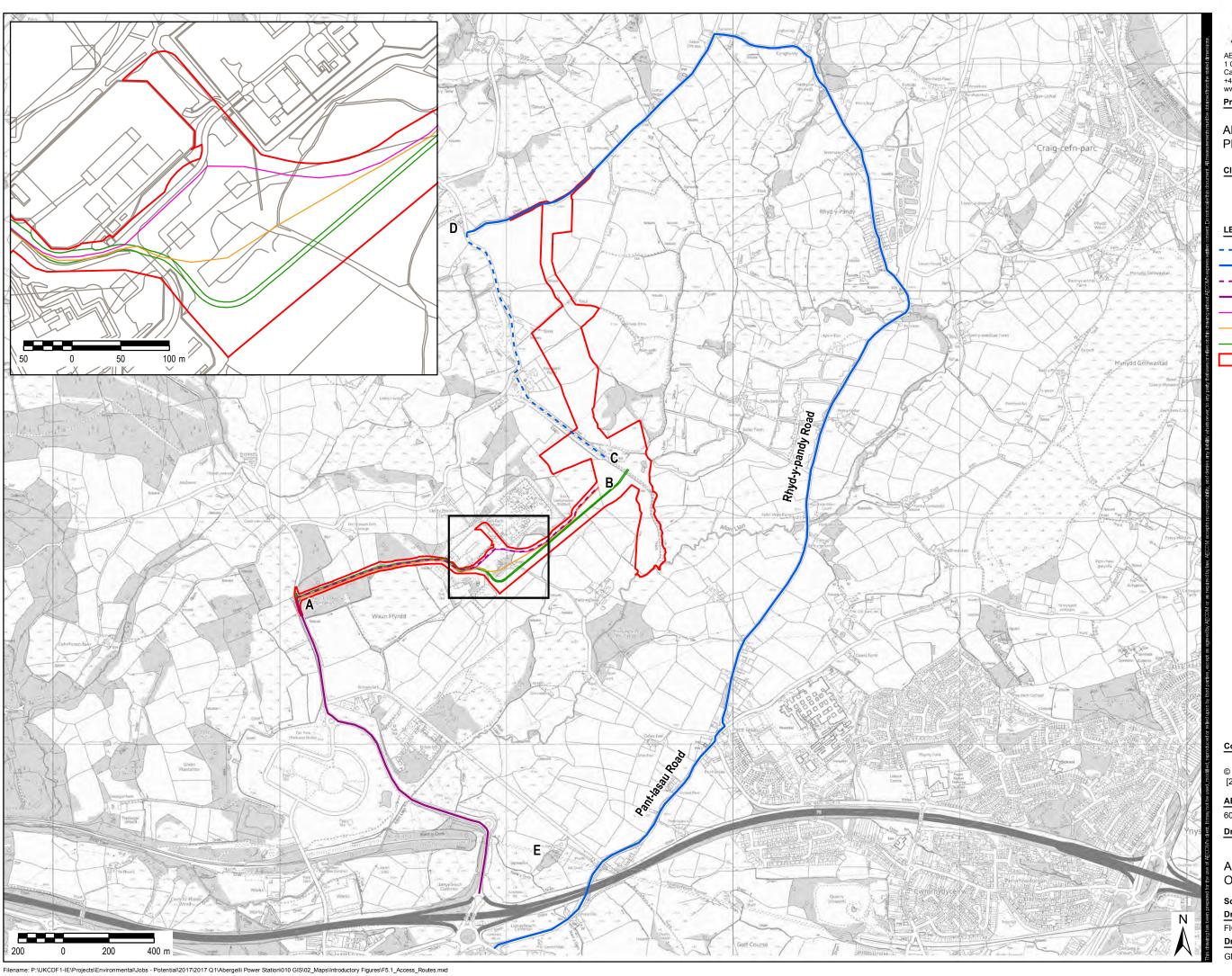
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**DEVELOPMENTS TO BE CONSIDERED IN CUMULATIVE ASSESSMENT** 

Scale at A3: 1:50,000

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Project Title:

ABERGELLI POWER PROJECT

Client:



#### LEGEND

Option 1 - Private roadOption 1 - Public road

- - Option 2 - Private road

Option 2 - Public roadOption A - Private road

Option B - Private road

Revised Option B Access Road

Project Site boundary

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## ACCESS ROUTE OPTIONS

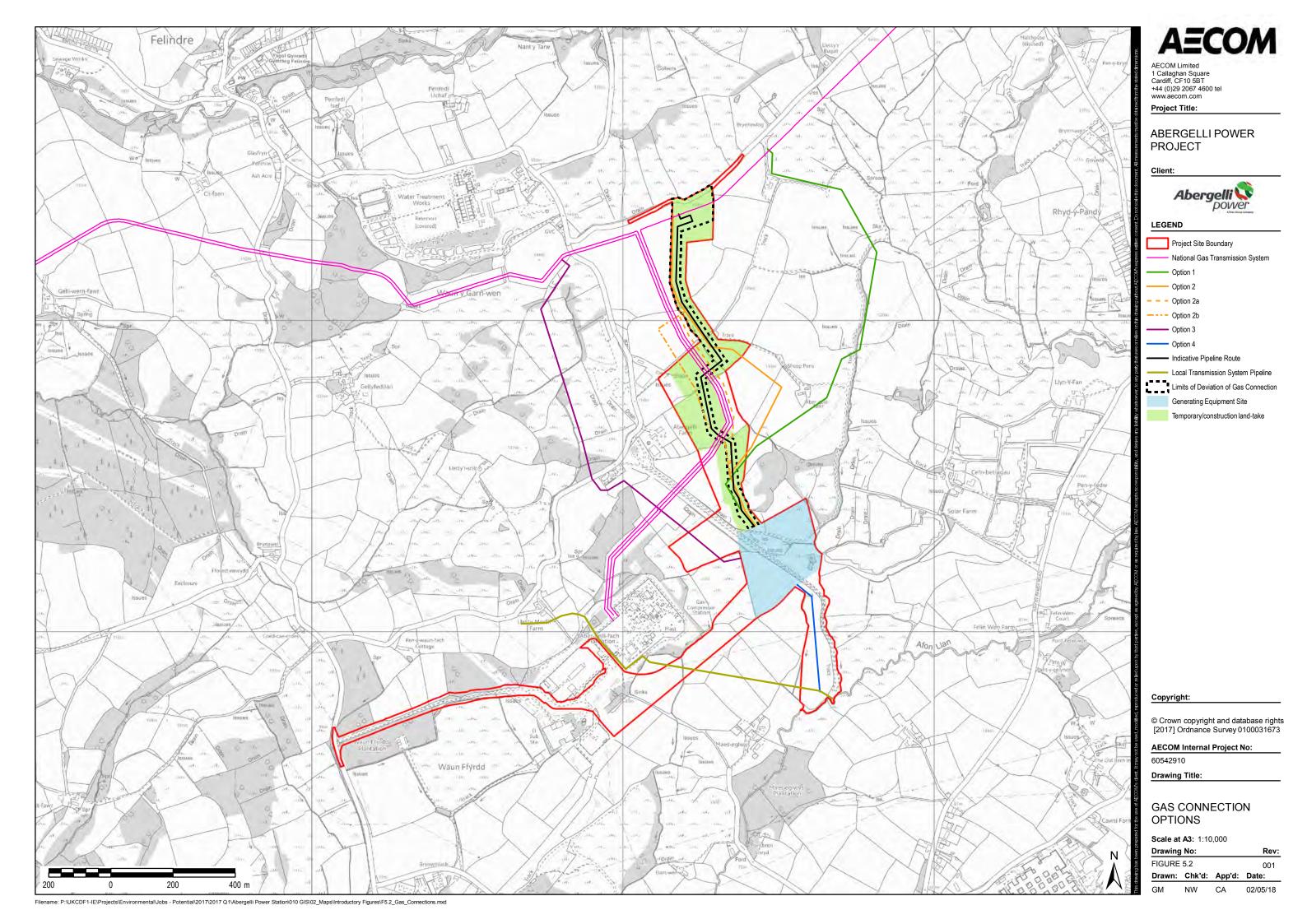
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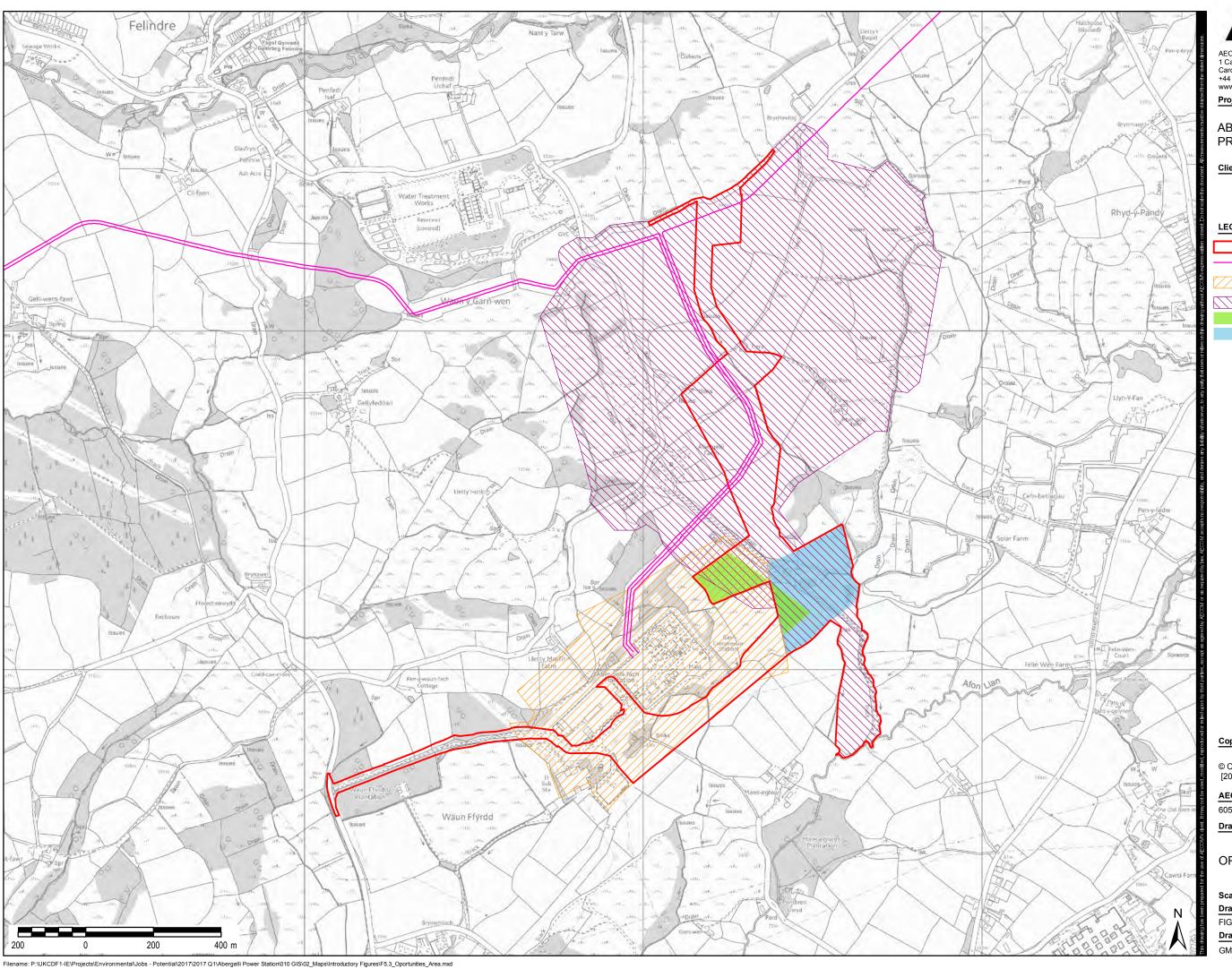
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02/05/18





Project Title:

ABERGELLI POWER **PROJECT** 



#### LEGEND

Project Site Boundary

 National Gas Transmission System **Electrical Connection Oportunity** 

Gas Connection Oportunity Area

Laydown Area

Generating Equipment Site

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**OPPORTUNITY AREAS** 

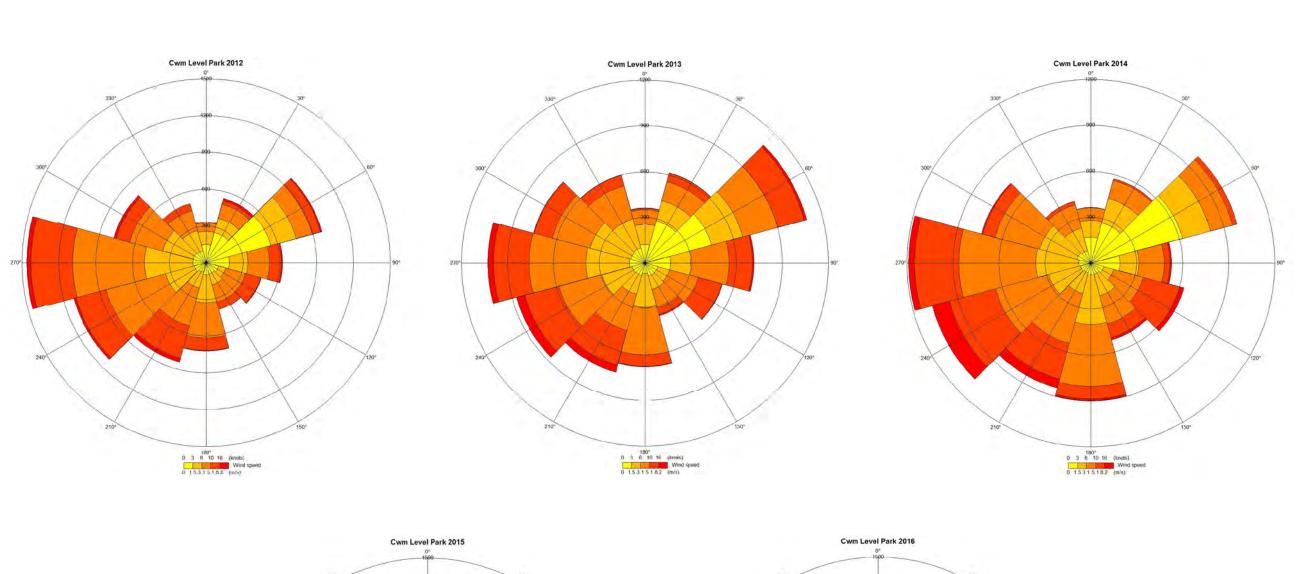
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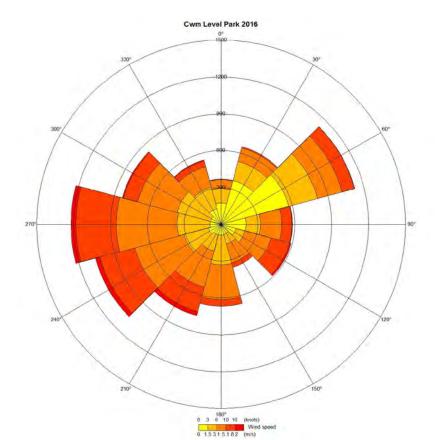
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Project Title:

ABERGELLI POWER PROJECT

Client:



LEGEND

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**AECOM Internal Project No:** 

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Drawing Title:

WIND ROSES

Scale at A3: Not to Scale

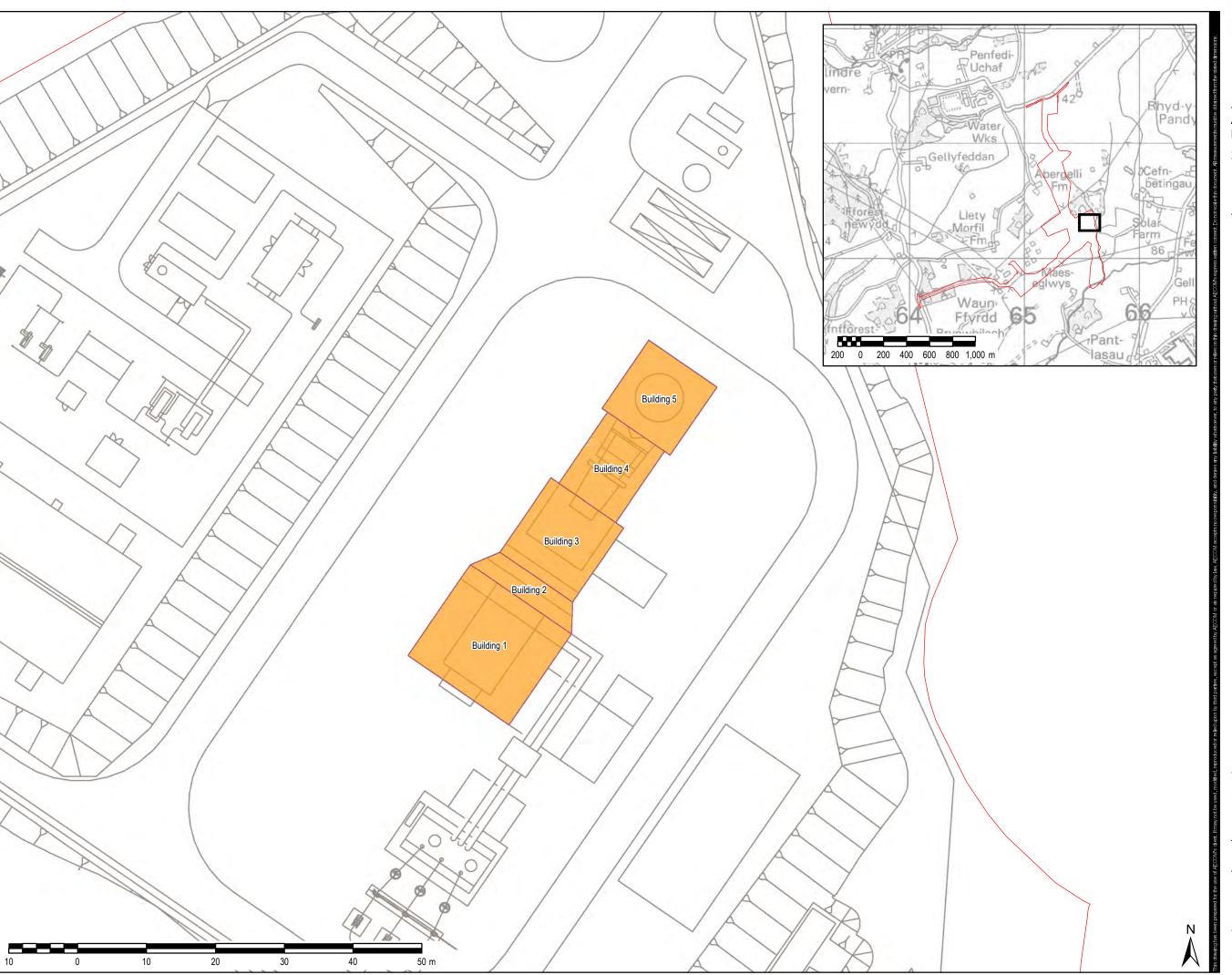
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 002

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0 3 6 10 16 (knots)
Wind speed
0 1.5 3.1 5.1 8.2 (m/s)



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Project Title:

## ABERGELLI POWER PROJECT

Client:



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Project Site Boundary

— Indicative Layout

Buildings Modelled

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#### **BUILDINGS MODELLED**

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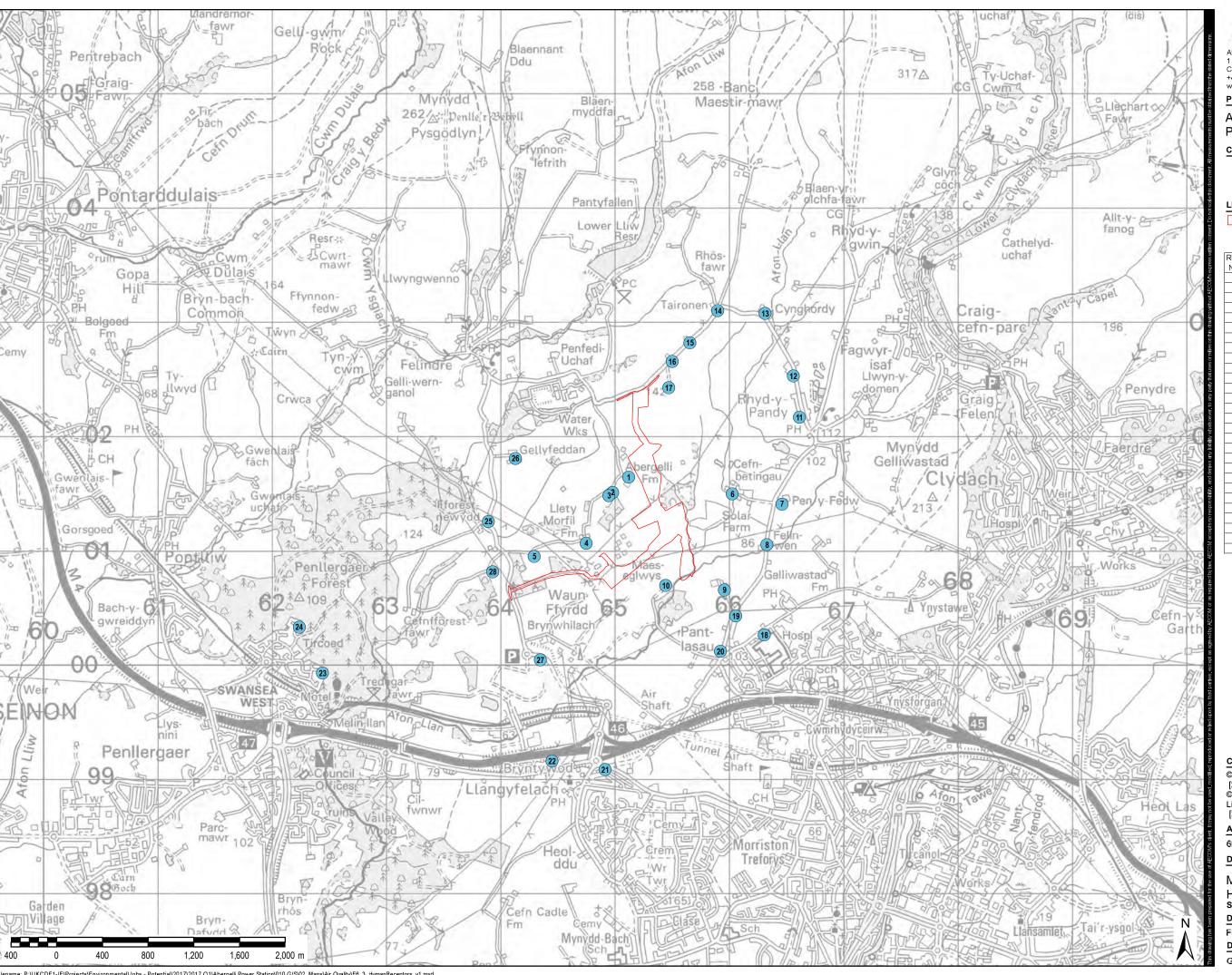
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**Project Title:** 

ABERGELLI POWER PROJECT

Client:



LEGEND

Project Site Boundary

Modelled Sensitive Human Receptors

| Receptor | Description                   |  |
|----------|-------------------------------|--|
| Number   | Bescription                   |  |
| 1        | Abergelli Farm                |  |
| 2        | Building SW of Abergelli Farm |  |
| 3        | Building SW of Abergelli Farm |  |
| 4        | Lletty Morfil Farm            |  |
| 5        | Pen-y-waun-fach Cottage       |  |
| 6        | Cefn-betingau                 |  |
| 7        | Pen-y-fedw                    |  |
| 8        | Felin-Wen-Court               |  |
| 9        | Property SE of the Site       |  |
| 10       | Maes-eglwys                   |  |
| 11       | Rhyd-y-Pandy                  |  |
| 12       | Gwynfa                        |  |
| 13       | Cynghordy                     |  |
| 14       | Salem Cottage                 |  |
| 15       | Lletty'r Bugail               |  |
| 16       | Brynheulog                    |  |
| 17       | Property N of the Site        |  |
| 18       | Morriston Hospital            |  |
| 19       | Pant-lasau                    |  |
| 20       | Pant-lasau                    |  |
| 21       | Llangyfelach                  |  |
| 22       | Bryn-tywod                    |  |
| 23       | Tircoed                       |  |
| 24       | Tircoed                       |  |
| 25       | Brynawel                      |  |
| 26       | Gellyfeddan                   |  |
| 27       | Area 5 of CCS LDP             |  |
| 28       | Area 11 of CCS LDP            |  |

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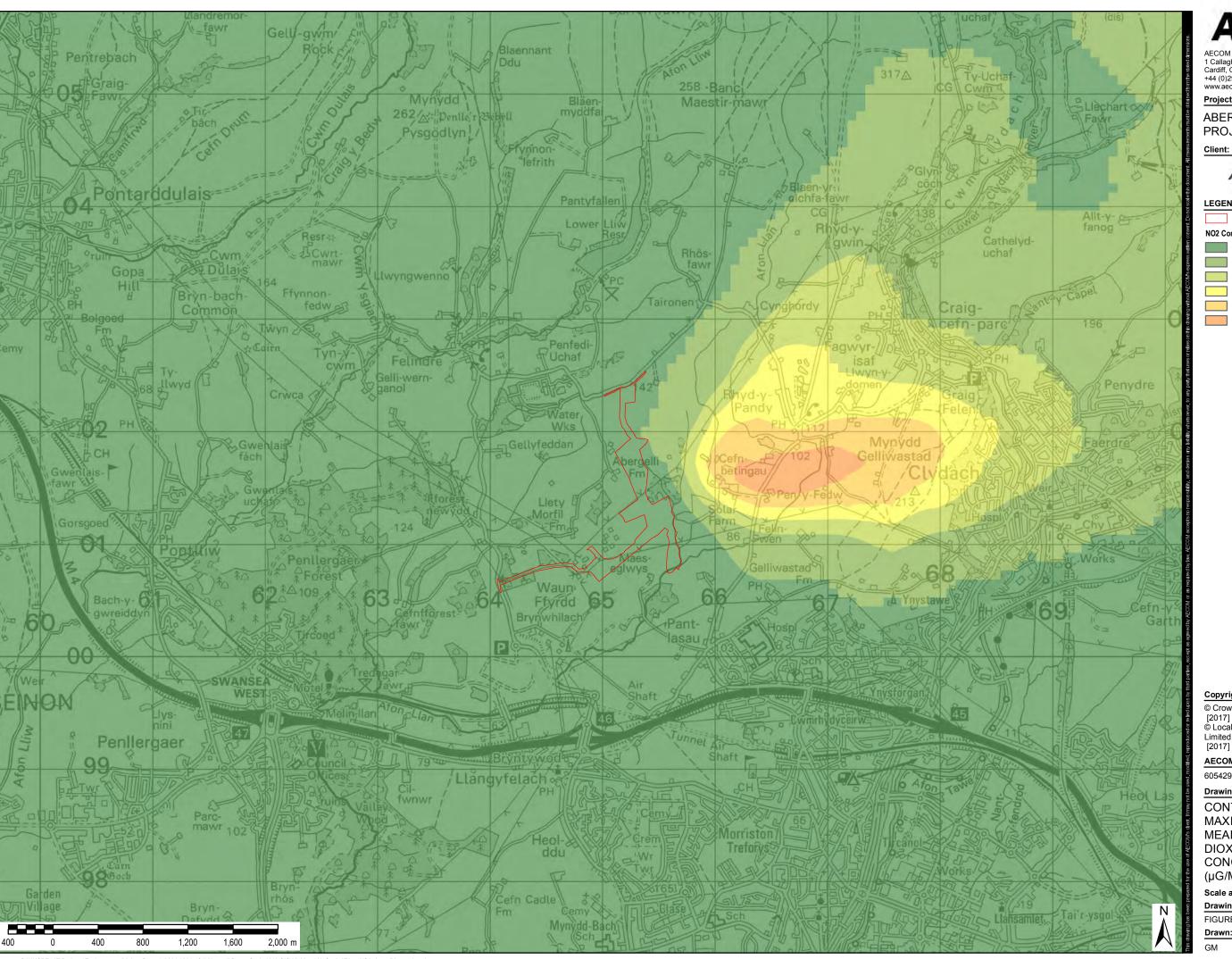
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MODELLED SENSITIVE **HUMAN RECEPTORS** Scale at A3: 1:30,000

**Drawing No:** FIGURE 6.3 Drawn: Chk'd: App'd: Date:

CA

CC



**Project Title:** 

ABERGELLI POWER **PROJECT** 



LEGEND

Project Site Boundary

NO2 Concentrations (µg/m3)

0.00 - 0.01

0.01 - 0.02

0.02 - 0.03

0.03 - 0.04 0.04 - 0.05

0.05 - 0.06

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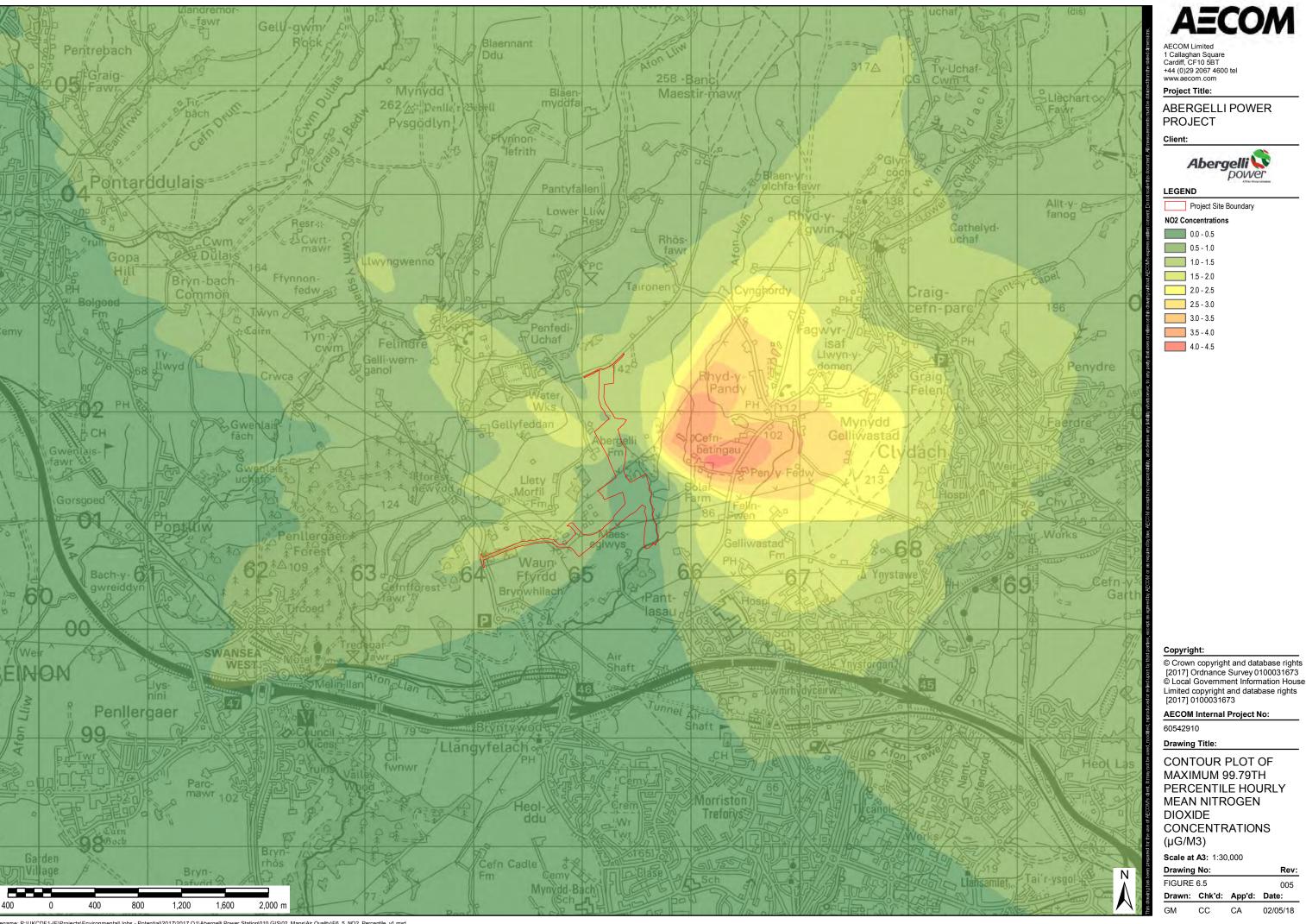
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**CONTOUR PLOT OF** MAXIMUM ANNUAL MEAN NITROGEN DIOXIDE **CONCENTRATIONS** (µG/M3)

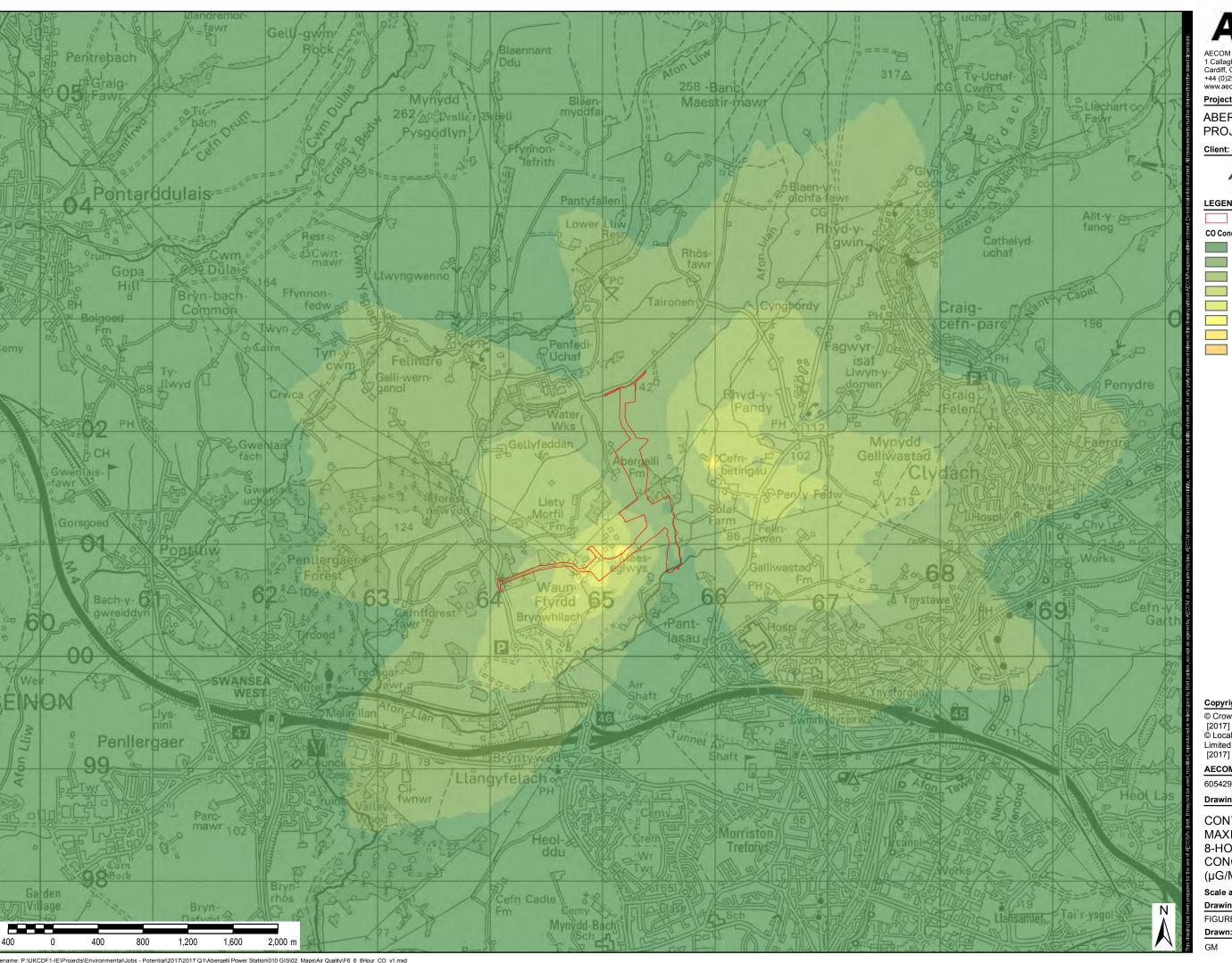
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**Drawing No:** FIGURE 6.4 Drawn: Chk'd: App'd: Date:

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**Project Title:** 

ABERGELLI POWER **PROJECT** 



LEGEND

Project Site Boundary

CO Concentrations (µg/m3)

0 - 5 5 - 10

10 - 15

15 - 20

20 - 25 25 - 30

30 - 35 35 - 40

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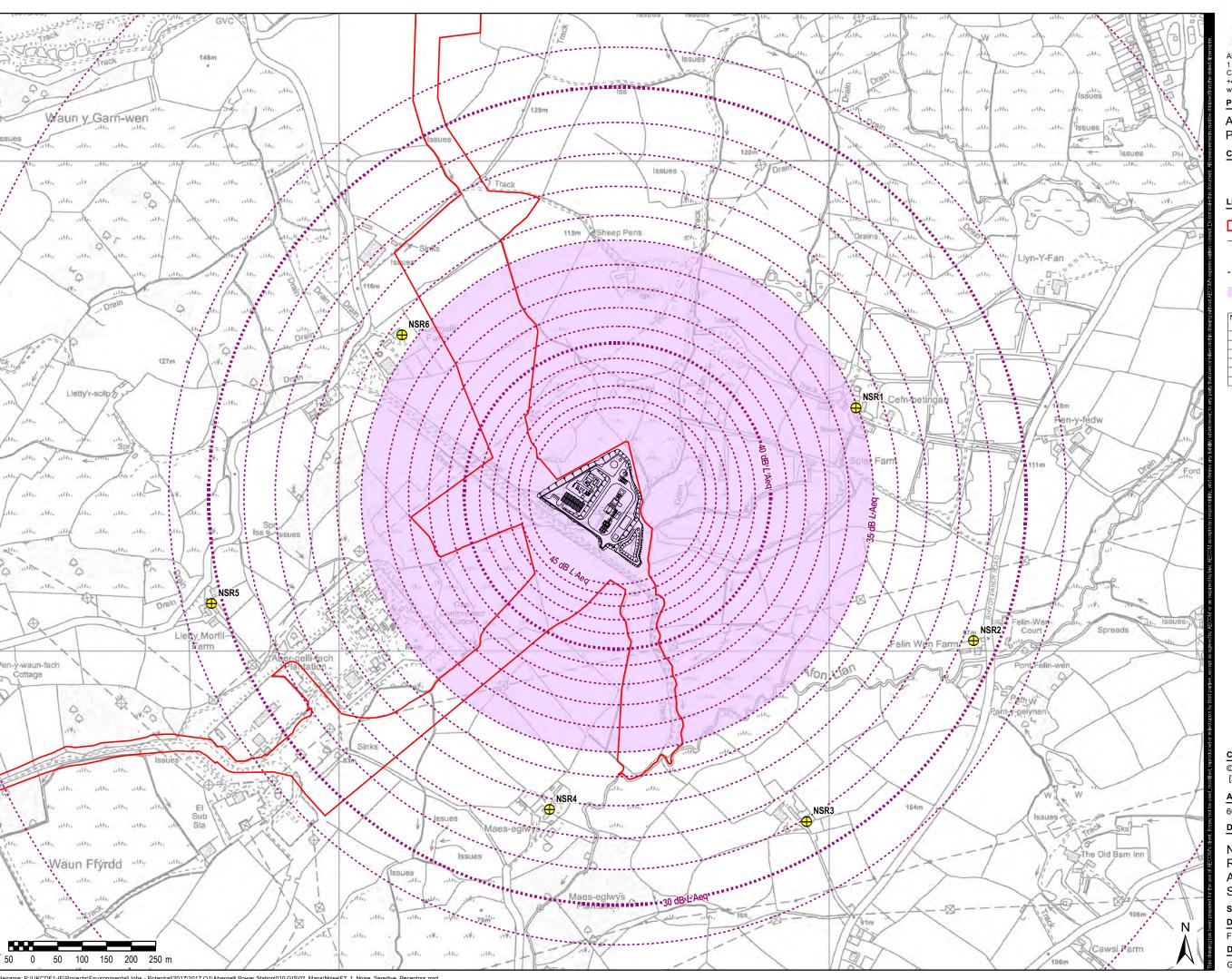
Drawing Title:

**CONTOUR PLOT OF** MAXIMUM ROLLING 8-HOUR CO **CONCENTRATIONS** (µG/M3)

Scale at A3: 1:30,000

**Drawing No:** FIGURE 6.6

Drawn: Chk'd: App'd: Date: CC CA



**Project Title:** 

#### ABERGELLI POWER **PROJECT**



LEGEND

Project Site Boundary

— Generating Equipment Site

Noise Sensitive Receptors ---- Indicative specific sound level contours

Area with predicted specific sound

level above 35 dB LAeq

| Noise Sensitive | Address            |  |
|-----------------|--------------------|--|
| Receptor        | Addiess            |  |
| NSR1            | Cefn-betingau      |  |
| NSR2            | Feline Wen Farm    |  |
| NSR3            | Llwynhelig         |  |
| NSR4            | Maes-eglwys        |  |
| NSR5            | Lletty Morfil Farm |  |
| NSR6            | Abergelli Farm     |  |

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Drawing Title:

#### NOISE SENSITIVE RECEPTOR LOCATIONS AND ESTIMATED SOUND LEVELS

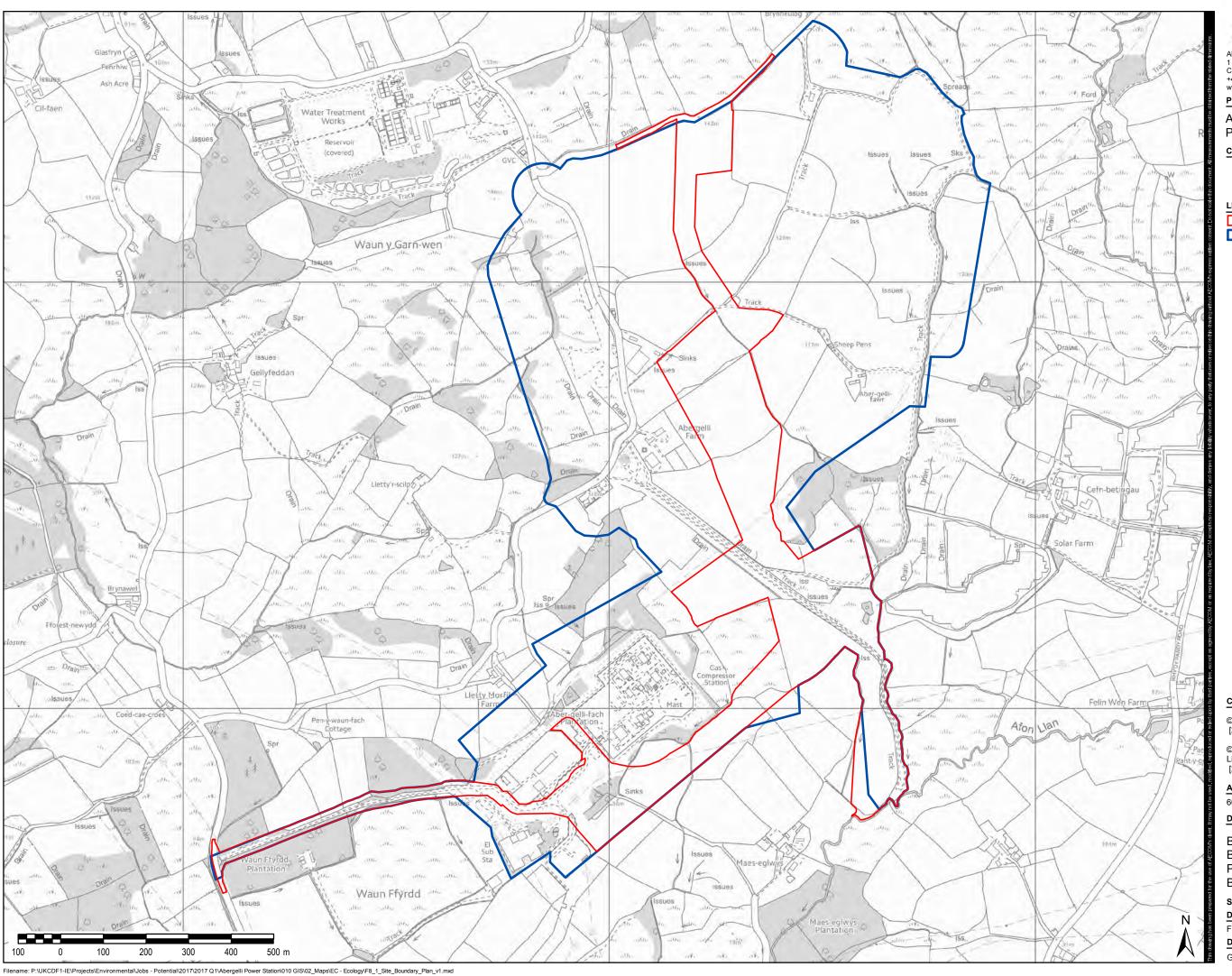
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**Drawing No:** FIGURE 7.1 Drawn: Chk'd: App'd: Date:

CA

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1 Callaghan Square Cardiff, CF10 5BT +44 (0)29 2067 4600 tel www.aecom.com

Project Title:

ABERGELLI POWER **PROJECT** 



LEGEND

Project Site Boundary

BSG Ecology 2014 Site Boundary

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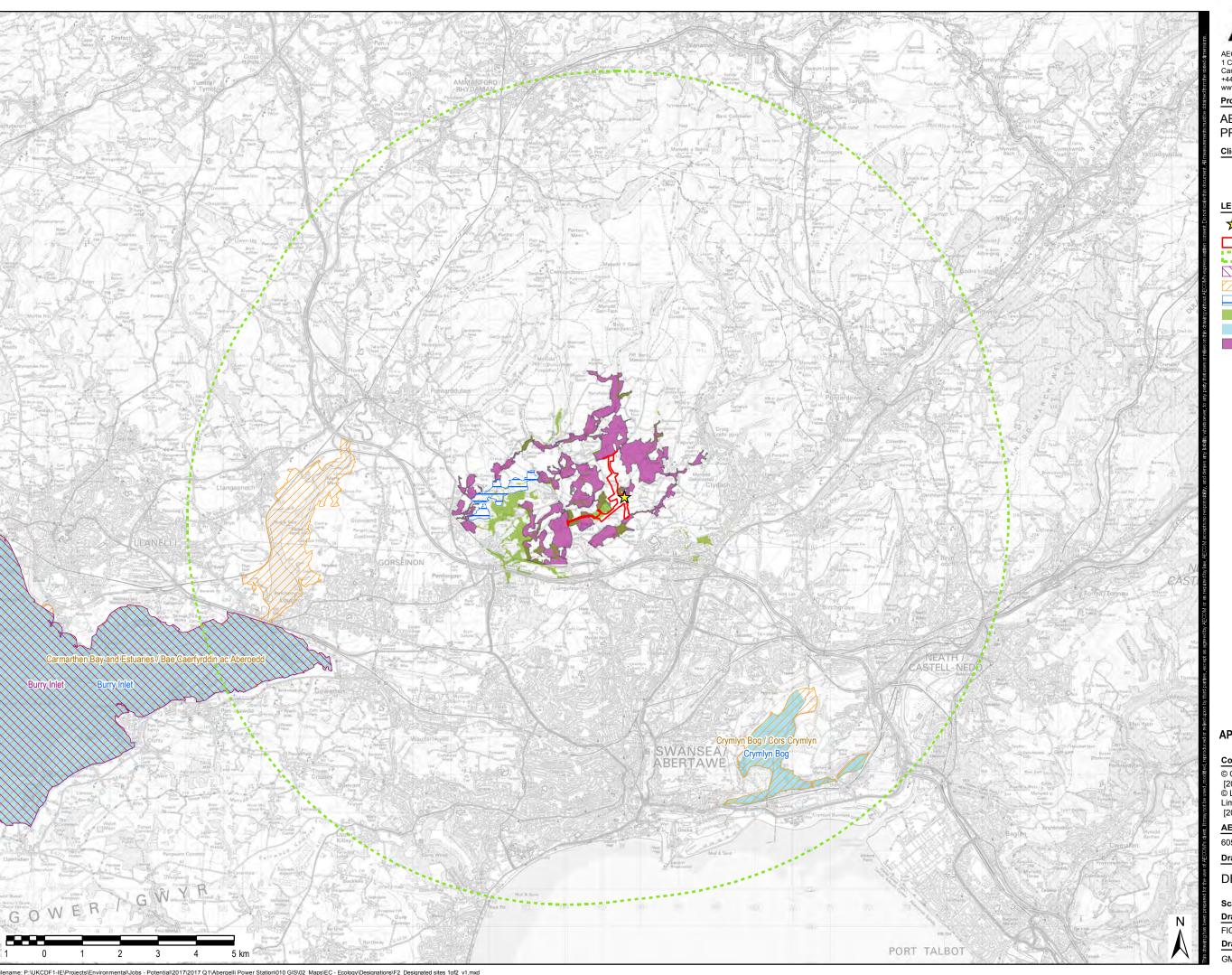
BSG ECOLOGY 2014 **BOUNDARY &** PROJECT SITE **BOUNDARY** 

Scale at A3: 1:8,000

CC

Drawing No: FIGURE 8.1 Drawn: Chk'd: App'd: Date:

CA



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Project Title:

ABERGELLI POWER PROJECT



LEGEND

Proposed Stack Location

Project Site Boundary

10km Study Area Special Protection Area

Special Area of Conservation

Site of Special Scientific Interest

Ancient Woodlands

Ramsar Site

SINCs

APFP Regulations 5(2)(L)

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**DESIGNATED SITES 1** 

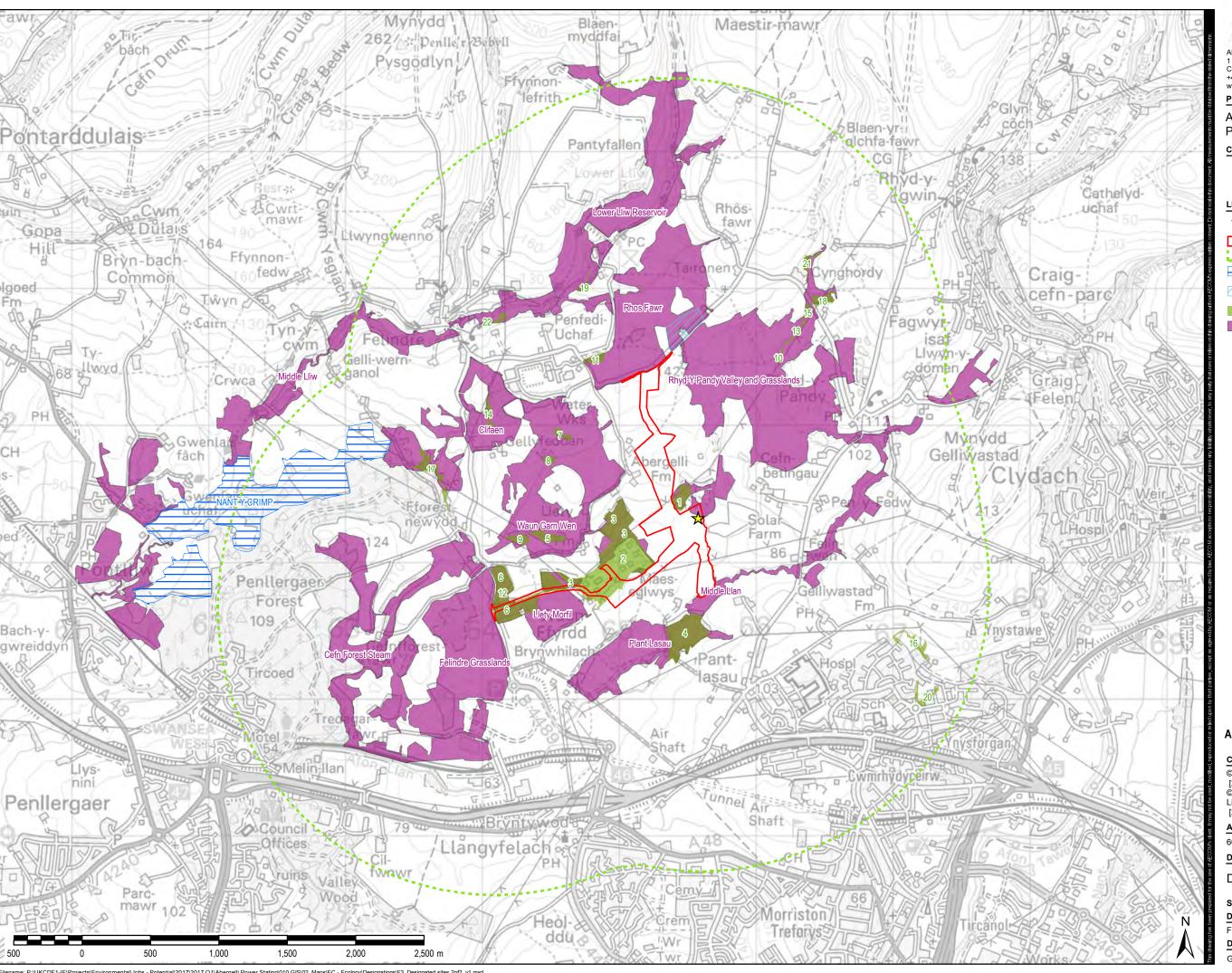
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Drawing No: FIGURE 8.2

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Project Title:

ABERGELLI POWER PROJECT



LEGEND

Proposed Stack Location

Project Site Boundary 2km Study Area

Site of Special Scientific Interest

Coed Barcud Wildlife Trust

Ancient Woodland

SINC

#### APFP Regulations 5(2)(L)

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#### **DESIGNATED SITES 2**

Scale at A3: 1:25,000

**Drawing No:** FIGURE 8.3

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