



## MANURE MANAGEMANT PLAN



**DEVELOPMENT:** Full planning application for an intensive poultry installation to include highway improvements, landscaping and all associated works

**LOCATION:** Lower Trederwen Farm  
Arddleen  
Llanymynech  
Powys  
SY22 6RZ

**CLIENT:** G P Mountford

**Roger Parry & Partners LLP**  
The Estates Office, 20 Salop Road, Oswestry, Shropshire, SY11 2NU  
Tel: 01691655334 Fax: 01691 657798  
Email: [richard@rogerparry.net](mailto:richard@rogerparry.net)

*Also at: 1 Berriew Street, Welshpool, Powys, SY21 7SQ  
Tel: 01938 554499 Fax: 01938 554462  
email: [welshpool@rogerparry.net](mailto:welshpool@rogerparry.net)*

*Also at: Hogstow Hall, Minsterley, Shrewsbury, SY5 0HZ  
Tel: 01743 791336 Fax: 01743 792770  
email: [mail@rogerparry.net](mailto:mail@rogerparry.net)*

**February 2018**



The Estates Office  
20 Salop Road  
Oswestry  
SY11 2NU

Phone 01691 655334

[richard@rogerparry.net](mailto:richard@rogerparry.net)  
[www.rogerparry.net](http://www.rogerparry.net)

*Offices also at Minsterley & Welshpool*

## MANURE MANAGEMENT PLAN

This manure management plan has been prepared for G P Mountford of Lower Trederwen Farm, Arddleen.

The farm extends to approximately 480 acres (94.25 hectares) of owner occupied and rented land. The farm currently has a herd of 350 dairy cows including followers with 100,000 broilers proposed. The applicants currently buy in fertiliser to spread on the land together with some poultry manure.

The manure management plan has been prepared for the total stock of 350 dairy cows and 100,000 broilers.

Table 1 shows the minimum amount of land necessary for the volume of livestock proposed to be carried on the farm. This is estimated at 231.25ha of required land for the purposes of spreading.

Table 1:

| Stock Unit                 | Number of Stock | Months housed | Hectares needed per stock | Total area required (ha) |
|----------------------------|-----------------|---------------|---------------------------|--------------------------|
| 1 dairy cow                | 350             | 5             | 0.019                     | 33.25                    |
| 1000 broilers              | 100             | N/A           | 1.98                      | 198.00                   |
|                            |                 |               |                           |                          |
| <b>Minimum land needed</b> |                 |               |                           | <b>231.25ha</b>          |

A buffer of 10m has been provided to all watercourses, and no spreading will be done on this buffer zone. The farm has therefore sufficient capacity to dispose of all manure produced by all enterprises in accordance with all the relevant regulations and legislation. Agreements are also in place with local neighbouring farmers who will purchase the additional manure produced as well as local AD plants.

The total amount of manure (N) that can be applied over the spreadable land on the farm would be 94.25 hectares x 250kg = 23,562.5kg N.

The total produced on the farm is 53,750kg N. The additional manure (30,187.5kg N) will be exported off site to local neighbouring farmers and AD plants (Table 2).

Table 2:

| Stock Unit                 | Stock Numbers | Kg N per Stock Unit | Total Kg N Produced |
|----------------------------|---------------|---------------------|---------------------|
| 1 broiler                  | 100,000       | 0.24                | 24,000              |
| 1 dairy cow                | 350           | 85                  | 29,750              |
| <b>Total Kg N produced</b> |               |                     | <b>53,750</b>       |

The manure storage and disposal will also need to accord with DEFRA's Code of Good Agricultural Practice for the Protection of Air, Water and Soil.

### Contingency Plan

There are a number of covered areas on the farm to allow for storing any manure, slurry and dirty water produced at times when spreading may not be possible e.g. due to wet, waterlogged or frozen conditions



The Estates Office  
20 Salop Road  
Oswestry  
SY11 2NU

Phone 01691 655334

[richard@rogerparry.net](mailto:richard@rogerparry.net)  
[www.rogerparry.net](http://www.rogerparry.net)

Offices also at Minsterley &  
Welshpool

in accordance with the Code of Good Agricultural Practice. This is to ensure manures and slurry are spread at appropriate times to prevent pollution and maximise uptake of nutrients for crop growth. Manure will also be exported off site to local AD plants.

Any contaminated wash water arising from the wash down process following a disease outbreak at the unit will be stored in containers separate from other manures, and will be disposed of by a specialist contractor licensed to deal with such wastes.

**Table 3**

| <b>Total Manure Production</b> |                      |                      |                   |
|--------------------------------|----------------------|----------------------|-------------------|
| <b>Group</b>                   | <b>Kg N Produced</b> | <b>No of Animals</b> | <b>Total Kg N</b> |
| Dairy herd                     | 85                   | 350                  | 29,750            |
| Broilers                       | 0.24                 | 100,000              | 24,000            |
| Total N Produced               |                      |                      | 53,750 Kg N       |
| Total N Spread on Holding      |                      |                      | 23,562.5          |
| Spreadable Area                |                      |                      | 94.25 Ha          |
| Total N/Ha                     |                      |                      | 250kg N/Ha        |
| Total N Exported Off Holding   |                      |                      | 30,187.5 Kg N     |

Areas on which solid manures and slurry should never be spread are:

Ditches and watercourses:

- Within at least 10 metres (11 yards) of either side of any watercourse including ditches and piped ditches. This will avoid direct spreading into the watercourse and also reduce the risk of run-off reaching the watercourse. Do not forget to include watercourses that form the boundary of your farm.

Other non-spreading (red) areas:

- Within at least 50 metres (55 yards) of any spring, well, borehole or reservoir that supplies water for human consumption or farm dairies.
- Very steep slopes where run-off is a high risk throughout the year.
- Any areas where you may not be allowed to spread for reasons such as a tenancy agreement, an abatement notice due to smell, set-aside land, Sites of Special Scientific Interest (SSSIs) or Environmentally Sensitive Areas (ESAs).
- The surface is rocky or uneven so that your equipment cannot be used effectively or safely.

## APPLICATION METHODS

Manures will be stored and spread in accordance with the water, soil and air Codes of Good Agricultural Practice.

Manures will be stored in field stores and manure heaps at Lower Trederwen Farm on pasture ground and will be densely packed with an 'A' shaped profile.

- Manure heaps will be well away from water courses, drainage schemes and ditches.
- Manure will be spread under suitable conditions
  - Wind direction will be chosen to be blowing with prevailing direction from the west which will blow any odours away from the closest dwellings.



The Estates Office  
20 Salop Road  
Oswestry  
SY11 2NU

Phone 01691 655334

[richard@rogerparry.net](mailto:richard@rogerparry.net)  
[www.rogerparry.net](http://www.rogerparry.net)

Offices also at Minsterley & Welshpool

- The ground to receive the manure will not be water logged or frozen.
- Spreading will be done at least 10 metres away from any water courses or ditches
- There is a covered concrete pad at Lower Trederwen Farm that can be used for emergency storage when conditions are not suitable to store manure on the fields. This shed has a dirty water system and has an impermeable base the shed used to be used for wintering cattle.
- Manure will be incorporated in the soil within 24 hours of application, where this is possible due to conditions.

#### Recommendations for manure stores:

- Manure stores should be covered in polythene
- To be located 10m away from all watercourses and ditches
- They should not be stored in any single location for more than 12 successive months
- Will follow the Code of Good Agricultural Practice in accordance with SSAFO (Water Resources Act (Control of Pollution) (Silage, Slurry and Agricultural Fuel) Wales Regulations 2010.

#### Mitigation for manure storage:

The manure will be removed from the poultry units following each crop cycle and will then be stored in field heaps before being applied to the land. The regulations allow certain types of solid manure to be stored temporarily in field heaps, provided they are located and constructed in accordance with the following rules:

-  Poultry manures only to be stored in field heaps if they are solid enough to be stacked in a free standing heap and do not give rise to free drainage from within the stacked material
-  Poultry manures without bedding/litter which is stored in a field heap with an impermeable sheet
-  No storage within 10m of a surface water or land drain
-  No storage within 50m of a spring, well or borehole
-  No storage on land likely to become waterlogged
-  No storage on land likely to become flooded
-  No storage in any single position for more than 12 successive months
-  A two year gap to be left before returning to the same site
-  All sites to be located on a risk map

#### MANURE SPREADING PLAN

Manure will be spread according to the annual cropping plan.

Manure will be tested and analysed on a regular basis so that quantities applied will mean that applications will concur with crop requirements as laid out in DEFRA document RB209.

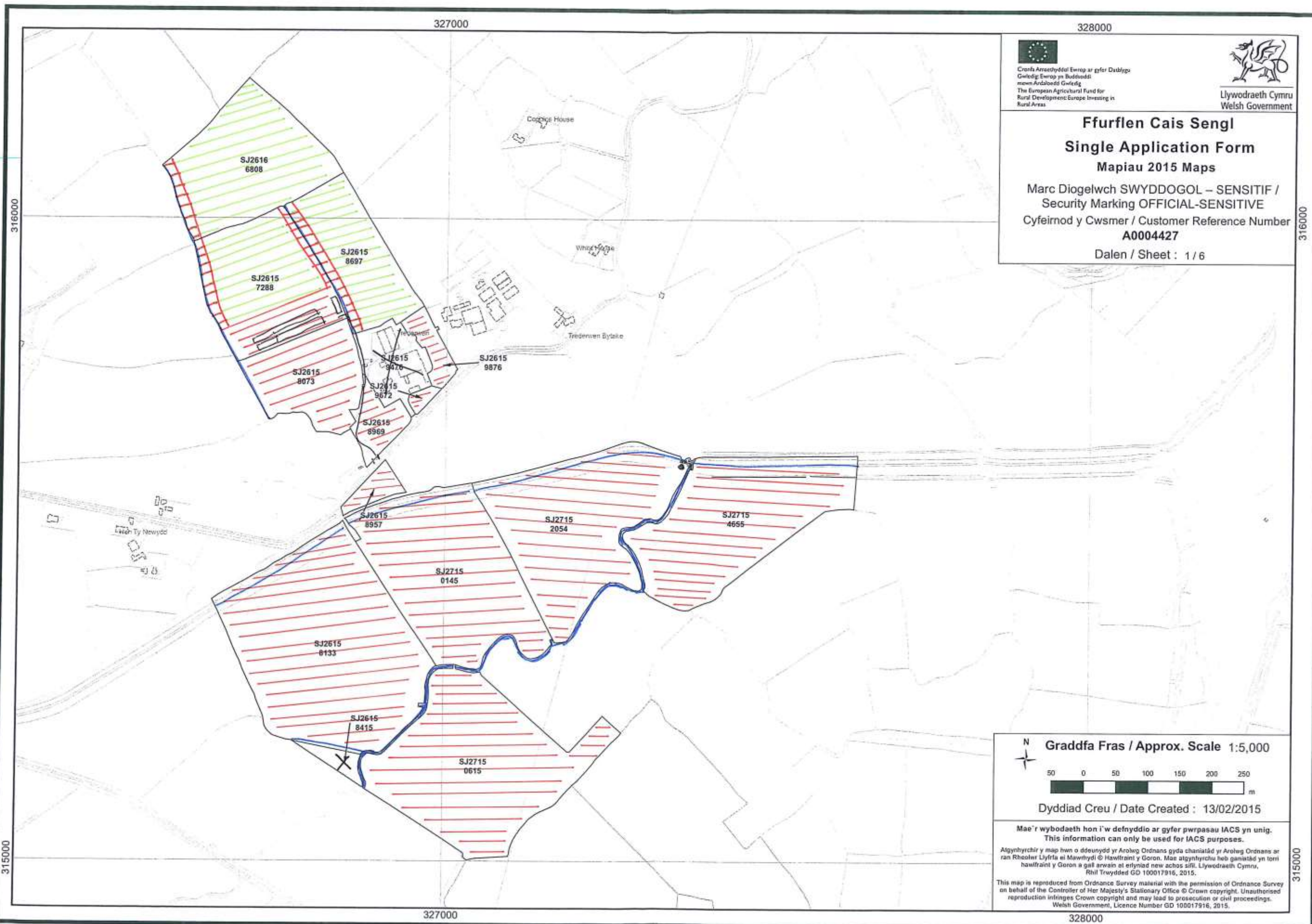


The Estates Office  
20 Salop Road  
Oswestry  
SY11 2NU

Phone 01691 655334

[richard@rogerparry.net](mailto:richard@rogerparry.net)  
[www.rogerparry.net](http://www.rogerparry.net)

Offices also at Minsterley &  
Welshpool



327000

328000



Cronfa Amcwyddol Ewrop ar gyfer Datblygu  
Gwledig Ewrop yn Buteboddoli  
mewn Ardaloedd Gwledig  
The European Agricultural Fund for  
Rural Development Europe Investing in  
Rural Areas



Llywodraeth Cymru  
Welsh Government

## Ffurflen Cais Sengl

### Single Application Form

Mapiau 2015 Maps

Marc Diogelwch SWYDDOGOL – SENSITIF /  
Security Marking OFFICIAL-SENSITIVE

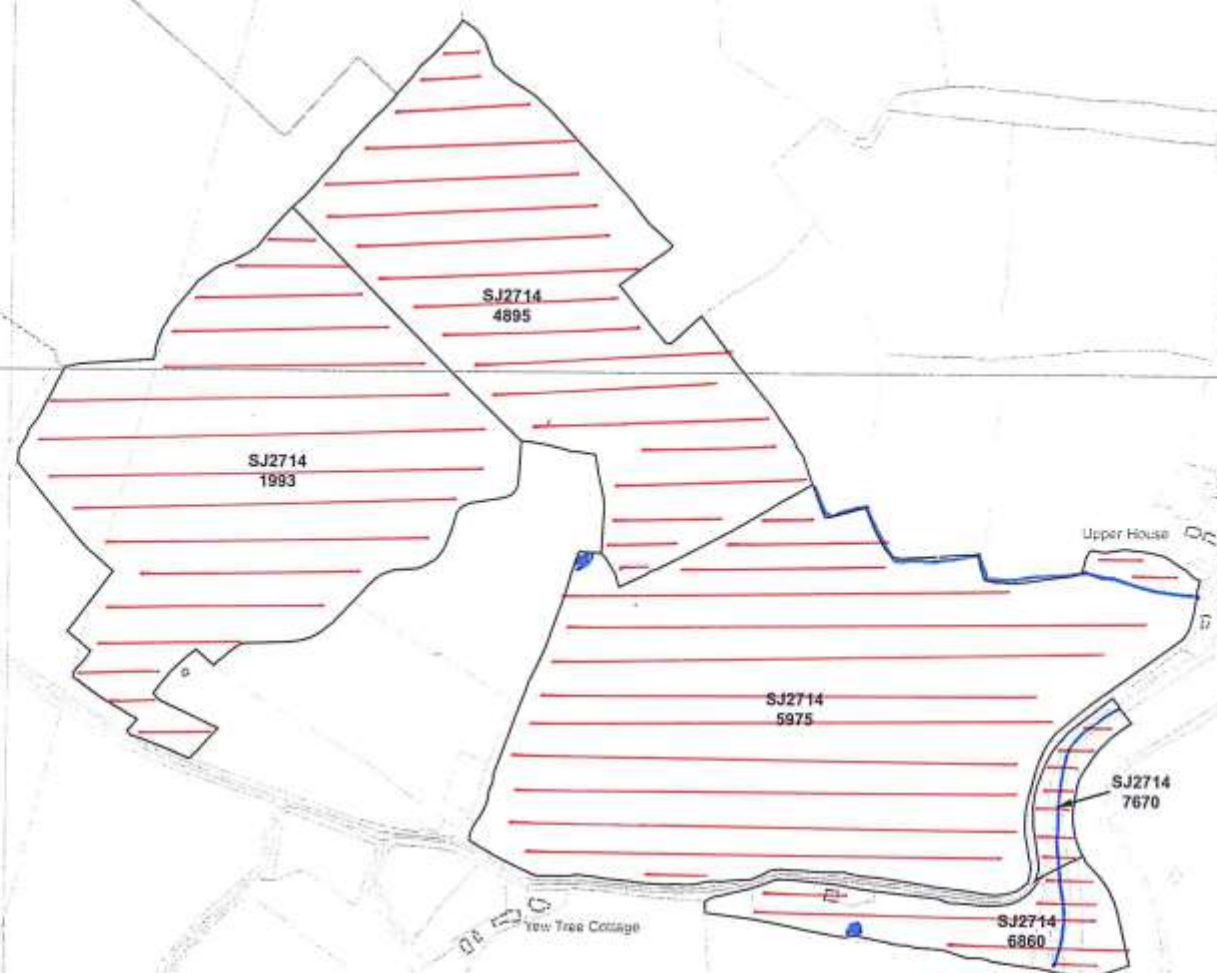
Cyfeirnod y Cwsmer / Customer Reference Number

**A0004427**

Dalen / Sheet : 3 / 6

315000

315000



Graddfa Fras / Approx. Scale 1:5,000



Dyddiad Creu / Date Created : 13/02/2015

Mae'r wybodaeth hon i'w defnyddio ar gyfer pwrpasau IACS yn unig.  
This information can only be used for IACS purposes.

Atgynhyrchir y map hwn o ddeunydd yr Arolwg Ordnans gyda chaniatâd yr Arolwg Ordnans ar ran Rheolwr Llyfrfa ei Mawrhydi © Hawttraint y Goron. Mae atgynhyrchu heb ganiatâd yn torri hawttraint y Goron a gall arwain at erlyniad new echos sifil, Llywodraeth Cymru, Rhif Trewydded GD 100017916, 2015.

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office © Crown copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings. Welsh Government, Licence Number GD 100017916, 2015.

327000

328000

316500

327000



Cronfa Amcuddiedol Ewrop ar gyfer Datblygu  
Gwledig Ewrop yn Buddsoddi  
mewn Ardaloedd Gwledig  
The European Agricultural Fund for  
Rural Development Europe Investing in  
Rural Areas



Llywodraeth Cymru  
Welsh Government

# **Ffurflen Cais Sengl**

## **Single Application Form**

### **Mapiau 2015 Maps**

Marc Diogelwch SWYDDOGOL – SENSITIF /  
Security Marking OFFICIAL-SENSITIVE  
Cyfeirnod y Cwsmer / Customer Reference Number  
**A0004427**

Dalen / Sheet : 6 / 6

SJ2616  
7134



**Graddfa Fras / Approx. Scale 1:1,250**



**Dyddiad Creu / Date Created : 13/02/2015**

Mae'r wybodaeth hon i'w defnyddio ar gyfer pwrpasau IACS yn unig.  
This information can only be used for IACS purposes.

Atgynhychir y map hwn o ddeunydd yr Arolwg Ordnans gyda chaniatâd yr Arolwg Ordnans ar  
ran Rheolwr Llyfrfa ei Mawrhydi © Hawlfraint y Goron. Mae atgynhychu heb ganiatâd yn torri  
hawlfraint y Goron a gall arwain at erlyniad new achos sili. Llywodraeth Cymru.  
Rhif Trwydded GD 100017916, 2015.

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey  
on behalf of the Controller of Her Majesty's Stationary Office © Crown copyright. Unauthorised  
reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.  
Welsh Government, Licence Number GD 100017916, 2015.

327000