Arolwg Daearegol Prydain
British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Llywodraeth Cymru
Welsh Government

MID WALES (NORTH)
GANOLBARTH CYMRU (GOGLEDD)

Aggregates Safeguarding Map of Wales

Diogelu Agregau: Map o Gymru

Aggregates Safeguarding
Diogelu Agregau

Scale 1:100 000
Graddfa 1:100 000

Compiled by: C.E. Wrighton, A.J. Humpage and T.P. Bide.
Project Leaders: A.J. Humpage, J.M. Marketow and A. Benham.
Digital Cartography: N.A. Spencer and H. Smith, British Geological Survey.
Published 2012.

Cryniadwyd gan: C.E. Wrighton, A.J. Humpage a T.P. Bide.
Arweinwyr y prosiect: A.J. Humpage, J.M. Marketow ac A. Benham.
Cartrografftaj ddigidol: N.A. Spencer a H. Smith, Arolwg Daearegol Prydain (ADP).
Cyhoeddwyd 2012.

This map is one of a series of six maps commissioned by the Welsh Government and co-funded by the BGS Sustainable Mineral Solutions Project and the Aggregates Levy Sustainability Fund for Wales (Contract 252/2009/08).
This map is to be used in conjunction with the accompanying report 'Aggregates Safeguarding Map of Wales' BGS Commissioned Report CR/12/039.

Mae'r map hwn yn un o gyfres o chwe map a gomisiynwyd gan Lywodraeth Cymru ac a gyd-ariannwyd gan Brosiect Sustainable Mineral Solutions ADP a Chronfa Gynaliadwyedd Ardoll Agregau ar gyfer Cymru (Cytundeb 252/2009/08).
Dylid defnyddio'r map hwn mewn cysylltiad a'r adroddiad canlynol 'Diogelu Agregau: Map o Gymru', Adroddiad CR/12/039 a gomisiynwyd gan ADP.

BGS map reference:

Aggregates Safeguarding Map of Mid Wales (North)
Humpage, A.J., Wrighton, C.E. and Bide, T.P. 2012, CR/12/027.

Cyfeirnod map ADP:

Diogelu Agregau: Map o Ganolbarth Cymru (Gogledd)
Humpage, A.J., Wrighton, C.E. and Bide, T.P. 2012, CR/12/027.

Category 1 Aggregates Safeguarding Areas
Ardaloedd Diogelu Agregau Categori 1

- Sand and Gravel / Tywod a Graean
- High Specification Aggregate - Sandstone and Igneous Rocks / Agreg Manyleb Uchel - Tywodfaen a Chreigiau Igneaidd
- High Specification Aggregate - Carboniferous Limestone / Agreg Manyleb Uchel - Calchfean Carboniferaidd

Category 2 Aggregates Safeguarding Areas
Ardaloedd Diogelu Agregau Categori 2

- Sand and Gravel / Tywod a Graean
- Sandstone / Tywodfaen
- Igneous Rocks / Creigiau Igneaidd
- Limestone / Calchfean
- Slate / Llechfaen

Administrative Areas
Ardaloedd Gweinyddol

- Mineral Planning Authority: Unitary Authority / Awdurdod Cynllunio Mwynol: Awdurdod Unedol
- Mineral Planning Authority: National Park Authority / Awdurdod Cynllunio Mwynol: Parc Cenedlaethol

WARNING: Please be aware that the printed colours may differ due to the settings of the plotter used.
DALIER SYLW: Gall y lliwiau printiedig fod yn wahanol o ganlyn i osodiadau'r plotyndd a ddefnyddir.

Map production and delimation of safeguarding boundaries

The boundaries of the aggregates safeguarding areas have been defined based on the aggregate mineral resources data that were prepared for and included in the National Minerals Map of Wales. In order to account for risk of sterilisation, any resources that are contained within urban areas have been excluded from the safeguarding boundaries. Consequently, the safeguarding areas extend beyond the boundaries of the resources data by 100m for superficial, and 200m for bedrock resources. These extensions reflect the minimum separation distances between sensitive development and mineral operations that are specified in Minerals Technical Advice Note 1: Aggregates. Aggregates safeguarding areas are not shown in urban areas, which are defined by the Ordnance Survey 'VectorMap Local' dataset launched in 2009.

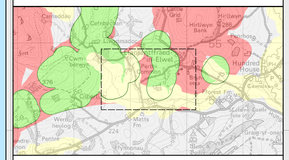
Cynllunio'r map ac ardrefnu ffiniau diogelu

Mae ffiniau'r ardaloedd diogelu agregau wedi'u diffinio ar sail y data'n ymwneud ag adnoddau agregau mwynol a baratowyd ar gyfer Map Mwynau Cenedlaethol Cymru ac a gynhwyswyd ynddo. Er mwyn rhoi cyfri am y risg o arwael adnodd mwynol yn arwaethadwy, am unrhyw ardaloedd ynghlych ffiniau'r ardaloedd adnoddau mwynol a nodwyd, ac am unrhyw fwyn a ellir foil ar gael o dan y gorlwyth, mae'r ardaloedd diogelu yn ymestyn y tu hwnt i ffiniau data'r adnoddau: 100m yn achos adnoddau arwynebol a 200m yn achos creigiau. Mae'r estyniadau hyn yn adlewyrchu'r pellter lleiaf rhwng datblygiad sensitif a gweithgareddau mwynol a nodir yn Nodyn Cyngor Technegol Mwynau 1: Agregau. Ni chaiff ardaloedd diogelu agregau eu dangos mewn ardaloedd trefol, a diffinnir yn set data 'VectorMap Local' yr Arolwg Ordnans a lansiwyd yn 2009.

Reading the map

The maps show categories of aggregate mineral resources according to whether the resource is considered nationally important (Category 1) or is important for serving regional and local markets (Category 2). Aggregate mineral resources that are locally important in some areas but which are not used in all areas (Category 3) are not shown on the map, but are contained in a Geographical Information System held by each Mineral Planning Authority. Category 1 resources are those resources that have a national importance as inferred by the information provided in the Regional Technical Statements for both North and South Wales, and national policies and guidance in Minerals Planning Policy Wales and Minerals Technical Advice Note 1: Aggregates. These resources are considered to be nationally important because they are rare, due to their limited occurrence and therefore particularly susceptible to sterilisation in the region, and those particularly economically important due to their high quality and / or limited occurrence across the United Kingdom. Category 2 resources have been selected as those resources that are considered to be of local importance and may have some regional significance, but are of less importance nationally than those identified for Category 1. The mineral resources that qualify as Category 2 resources were selected by BGS and technical experts in a project steering group, as detailed knowledge of the local industry is necessary to make these judgements.

The map production techniques used for the Aggregates Safeguarding Maps are that superficial deposits (sand and gravel) overlie bedrock, and where there are two coincident bedrock aggregates categories, Category 1 safeguarding areas overlie Category 2 safeguarding areas. Where Category 1 bedrock aggregates safeguarding areas underlie superficial deposits aggregates safeguarding areas, a solid line shows the boundary (see outlined area in example map below).


Cefnddwy
Cefnddwysarn
Llandderfel
Llanfor
Llanuwchllyn
Llanycil
Bala
Llanderfel
Llanfachreth
Llanycil
Llanfawr
Llanfrothen
Maentwrog
Trawsfynydd
Gellilydan
Blaenau Ffestiniog
Manod
Llan Ffestiniog
Llanddaniel Fab
Llanfihangel y Pennant
Talsarnau
Llandecwyn
Llanfair
Harlech
Llanbedr
Llanddwywe
Llanaelhaearn
Garndolbenmaen
Penrhyndeudraeth
Llanfair Talhaiarn
Llansantffraid Glan Conwy
Deganwy
Llandudno
Llandudno Junction
Conwy
Colwyn Bay
Rhos on Sea
Llanrhos
Penrhyn Bay
Llandrillo yn Rhos
Llanrwst
Trefriw
Betws y Coed
Capel Curig
Llanberis
Dinorwic
Llanddeiniolen
Llanrug
Llanbedrgoch
Moelfre
Benllech
Pentraeth
Llanfihangel Ysgeifiog
Llangefni
Llanfaethlu
Llanfair Pwllheli
Pwllheli
Abersoch
Llanengan
Aberdaron
Llanbedrog
Tudweiliog
Llanfaelrhys
Sarn
Botwnnog
Bryncrug
Llanegryn
Tywyn
Llwyngwril
Llangelynin
Rhoslan
Bontddu
Dolgellau
Llanelltyd
Brithdir
Llanfachreth
Ganllwyd
Llanfachreth
Dinas Mawddwy
Mallwyd
Cemmaes
Mallwyd
Pennal
Machynlleth
Corris
Tywyn
Aberdyfi
Furnace
Eglwysfach
Llangelynin
Rhoslan
Bontddu
Talybont
Llanbedr
Ystumllyn
Garndolbenmaen
Llanystumdwy
Cricieth
Llanfrothen
Penrhyndeudraeth
Taliesin
Llanegryn
Aberdyfi
Tywyn
Bryncrug
Llanfihangel y Pennant
Arthog
Fairbourne
Llwyngwril