Arolwg Daearegol Prydain
British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Llywodraeth Cymru
Welsh Government

SOUTH WEST WALES
DDE-ORLLEWIN CYMRU

Aggregates Safeguarding Map of Wales
Diogelu Agregau: Map o Gymru

Aggregates Safeguarding
Diogelu Agregau

Scale 1:100 000
Graddfa 1:100 000

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

Cryntwyd gan: T.P. Bide, C.E. Wrighton and A.J. Humpage.
Arweinwyr y prosiect: A.J. Humpage, J.M. Markelow ac A. Benham.
Cartografiaeth 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 252/2009/09).
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 Broseict Sustainable Mineral Solutions ADP a Chronfa Gynaliadwyedd Ardoll Agregau ar gyfer Cymru (Cytundeb 252/2009/09).
Dylid defnyddio'r map hwn mewn cysylltiad ā'r adroddiad canlynol 'Diogelu Agregau: Map o Gymru', Adroddiad CR/12/039 a gomisiynwyd gan ADP.

BGS map reference:

Aggregates Safeguarding Map of South-west Wales
Bide, T.P., Wrighton, C.E. and Humpage, A.J. 2012. OR/12/024.

Cyfeirnod map ADP:

Diogelu Agregau: Map o Dde-orllewin Cymru
Bide, T.P., Wrighton, C.E. and Humpage, A.J. 2012. OR/12/024.

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 (stipple denotes high purity >97% $CaCO_3$) / Agreg Manyleb Uchel - Calchfaen Carbonifferaidd (y dotwaith yn dynodi purdeb uchel >97% $CaCO_3$)

Category 2 Aggregates Safeguarding Areas
Ardaloedd Diogelu Agregau Categori 2

- Sand and Gravel / Tywod a Graean
- Sandstone (stipple denotes quartzitic sandstone with potential for silica sand and silica rock) / Tywodfaen (y dotwaith yn tywodfaen cwarsitig ā photensial am dywod silica a chraig silica)
- Igneous Rocks / Creigiau Igneaidd
- 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 plotydd a ddefnyddir.

Map production and delineation of safeguarding boundaries

The boundaries of the aggregates safeguarding areas have been defined based on the aggregate mineral resources data held by the British Geological Survey for the National Mineral Resource Database of Wales. In order to account for risk of sterilisation, any impression of the identified boundaries of the resource areas, and any mineral that might be accessed beneath overburden, 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.

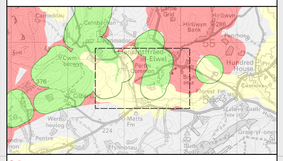
Cynhyrchiad y map ac amlinellu ffiniau diogelu

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 gorhwyswyd yndda. Er mwyn rhoi cyfri am y risg o wneud adnodd mwynol yn anweithedig, am unrhyw argraffiadau ynglŷnch ffiniau'r ardaloedd adnoddau mwynol a nodwyd, ac am unrhyw fwyn a allai fod islaw'r ddaear, ymestyna'r ardaloedd diogelu tu hwnt i'r data adnoddau 100m ar gyfer rhai arwynebol, a 200m ar gyfer rhai adnoddau ancreuhedd 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 diffinir rn-yat-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 Wales. The Category 1 resources are those resources that are specifically referenced in Mineral Planning Policy as being of Minerals Advice Note 1 Aggregates. This includes those aggregates minerals that are specifically referenced in policy as being of 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 concident 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).


Carmarthen
Llandeilo
Llandovery
Llanelli
Swansea
Neath
Kidwelly
Pendine
Tenby
Pembroke Dock
Milford Haven
Haverfordwest
Narberth
St Clears
Newcastle Emlyn
Cardigan
Lampeter
Aberaeron
New Quay
Tregaron
Fishguard
St David's
Hilliwen Bank
Cwm Cych
Ffynnon Ceiriog
Llan-Ewen
Ffynnon Ceiriog
Hundred Houses
Gwernesney
Llanfair Kilgeddin
Llanfair Kilgeddin
Llanfair Kilgeddin