

12 The Strategy for Hydrocarbons

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Introduction

12.1 This chapter considers the overall strategy for the production of onshore hydrocarbons (oil and gas), as well as the storage of gas underground, in Dorset.

12.2 Dorset has a long association with oil and gas exploration and production, with initial searches in the 1930s and the first commercial discovery at Kimmeridge in 1959. The discovery of a significant oilfield at Wytch Farm in 1973 has put Dorset in the forefront of onshore oilfield development and intensified the search for oil throughout southern England.

12.3 The discovery of further commercial reserves, including those under Poole Bay, led to the Wytch Farm development becoming the most productive onshore field in Europe, reaching output levels of 110,000 barrels per day (bpd). This has since fallen to a current level of around 10 - 20,000 bpd.



Spatial characteristics and current production

12.4 Conventional oil and gas operations are the subject of a licensing system by the Department for Energy and Climate Change (DECC). Petroleum Exploration and Development Licences issued by DECC grant exclusivity to operators in the licence area. They do not however give consent for drilling or any other operations.

12.5 The licenced areas in the county mainly cover south and south east Dorset, including Purbeck. Many of the areas are sensitive environmentally, with habitats designated at the European level for their value, scattered amongst them, notably the Dorset Heaths SAC and

Dorset Heathlands SPA. The Dorset AONB extends through three of the licenced areas. In addition, part of the Dorset & East Devon Coast World Heritage Site coincides with the licenced areas. Such designations may present constraints on production and processing sites in the future and would need full consideration in line with the policies of the Minerals Core Strategy and relevant legislation.

12.6 Extraction of hydrocarbons in Dorset has historically been undertaken in such areas, with Wytch Farm being located in the Dorset AONB and the well sites being dispersed amongst European and nationally protected habitats. The designation of the European wildlife sites largely postdates the oilfield development. Land management has been important in keeping the development unobtrusive within the forest and heathland landscape.

12.7 Wytch Farm has a total of 95 wells, operating from 10 sites on the Isle of Purbeck. The Wytch Farm oilfield, located around the southern shores of Poole Harbour, hosts the majority of these sites, which lie within the Frome, Bridport and Sherwood oil bearing reservoirs. The smaller Wareham oilfield (west of Wareham) and Kimmeridge oilfield (at Kimmeridge Bay) are supplementary operations to the main oilfield production. For the purposes of this document, 'Wytch Farm' is taken to include all three oilfields.

12.8 Oil is processed at the Wytch Farm gathering station. Crude oil is exported by pipeline to a storage and loading facility at Hamble, Southampton, whilst gas is exported by pipeline directly into a gas pipeline transmission system at Sopley, north of Christchurch, for feeding into the main domestic gas network. Additionally, liquid propane is distributed direct to customers by road tanker. Extended reach directional wells have been drilled offshore into the Sherwood reservoir underlying Poole Bay, with the well of the greatest distance extending 11km from the onshore well site. This brings considerable environmental benefits by enabling the furthest parts of the reservoir to be drilled from an onshore site.

12.9 Elsewhere in Dorset, there has more recently been oil and gas exploration and appraisal activity east of Dorchester, whilst an underground gas storage facility has been permitted on Portland.

Provision of Hydrocarbons

12.10 Oil and gas are primary sources of energy in the UK. Natural gas in particular is used to generate electricity and oil is used to derive petroleum for use as fuels. Oil and gas are also used for domestic heating and are important process fuels in industry. In addition millions of products are made from the chemical processing of oil and gas. UK oil and gas currently supplies around 60% of the country's energy needs.⁽²¹⁾

12.11 Whilst an increase in low carbon sources of energy is vital to meet targets to reduce carbon emissions and to mitigate against climate change, there will continue to be a need for oil and gas in the foreseeable future, with the Government's energy policy being to ensure secure, diverse and sustainable supplies.

21 http://www.decc.gov.uk/en/content/cms/meeting_energy/oil_gas/oil_gas.aspx

12.12 Onshore oil and gas production, whilst being relatively small in comparison to offshore production, makes an important contribution to supply with the additional advantage of proximity to demand. The Government's policy is that energy resources such as oil and gas, like other minerals, are essential to support sustainable economic growth and local planning authorities should give great weight to the benefits of mineral extraction, including the economy. It is therefore important that there is a sufficient supply to meet the country's needs.

12.13 The nature of operations for oil and gas development is very different from conventional mineral working. They are non-intrusive in terms of their limited land-take and more flexible in locational requirements. Impacts are minimised by locating development so as to avoid the most sensitive areas and through site design and management.

12.14 There are three phases of oil and gas development - exploration, appraisal and production - each of which requires planning permission. Potential impacts and planning issues vary according to the particular phase of activity.

12.15 The Minerals Core Strategy supports further exploration, appraisal and production of onshore oil and gas, subject to the considerations set out in this chapter. Policy guidance is provided for each phase of development in order that operations are effectively managed and potential impacts are minimised. It is important that specific conditions are attached to any permission to ensure that amenity and environmental interests are protected.

Exploration and Appraisal

12.16 The exploration and appraisal phases are carried out to establish the presence, extent and characteristics of hydrocarbons and the economic viability of their extraction.

12.17 Exploration encompasses a range of activities including geological mapping, geophysical/seismic investigations and the drilling and investigation of wells and boreholes to assess prospective sites in more detail. Surveys establish if the potential geological structures to hold oil and gas are present. Seismic investigations are temporary in nature and generally have very limited environmental impact.

12.18 The only way firmly to establish if oil or gas is present is to drill a borehole, which requires planning permission. Although such sites are temporary and usually small-scale in nature, drilling is an intensive activity and there could be visual, lighting and noise disturbance and impacts on local roads. There may be a need for night time drilling for safety reasons. Proposals for exploratory wells will be considered on their individual merits in accordance with the policies in this plan and should address all these issues.

12.19 If hydrocarbons are found, the appraisal phase may follow. The operator will need to carry out longer-term testing of the reservoir to determine its characteristics, which could involve installing a beam pump and removing oil by tanker each day. The number of tanker movements may need to be restricted to an acceptable level. Flaring off gas may also be necessary, as well as additional wells to confirm the extent of the accumulation. Proposals for appraisal should look afresh at the issues considered at the exploration phase and consideration should be given to the long term suitability of the site since such wells may be developed for production purposes.

12.20 Ensuring that exploration boreholes, appraisal wells and any ancillary facilities are located in the least sensitive location, in environmental and residential amenity terms, for accessing the target reservoir, is an important consideration. The Mineral Planning Authority would need to be provided with information on the extent of the area of search and how the site has been selected within this area. The area of search is defined as the area within which the exploration or appraisal will take place in relation to the wider reservoir. It should be demonstrated that location selection has had regard to nature conservation interests, residential amenity, historic environment and best and most versatile agricultural land. It should also be demonstrated that facilities are of minimal landscape and visual impact and offer the best opportunity for the appropriate and adequate mitigation and/or compensation of any adverse effects.

12.21 Where a target reservoir is directly beneath an environmentally sensitive area, opportunities for directional drilling from outside of the sensitive area should be explored. The Mineral Planning Authority will also need to be assured that adequate mitigation measures against pollution from spillage and the disposal of drilling residue are in place.

12.22 Proposals for drilling will not generally be acceptable close to dwellings unless noise levels can be reduced to an acceptable level. Careful consideration will be given to controlling vehicular activity and routing, controlling the disposal of mud and other drilling residue, and controlling noise and light emissions from drilling rigs particularly in relation to night time operations.

12.23 Because of the three stages of oil and gas development, it is possible to require restoration of well-sites to be undertaken at the end of exploration or appraisal rather than allowing the operator to keep the site 'on hold' before moving onto the next stage for environmental and amenity reasons. Proposals should therefore include a scheme for restoration to take place as early as practicable if oil and gas is not found. If oil and gas is found in economically viable quantities, it is expected that development to the next stage would take place within a reasonable time frame as agreed with the Mineral Planning Authority.

12.24 Where activities require planning permission, proposals should comply with Policy HY1, as well as other relevant policies in this plan (such as the Development Management Policies).

Policy HY1 - Proposals for Exploration and Appraisal

Proposals for exploration and appraisal of onshore oil and gas will be permitted where all of the following apply:

- a. well sites and associated facilities are sited in the least sensitive location from which the target reservoir can be accessed;
- b. it has been demonstrated that possible effects that might arise from the development would not adversely affect the integrity of any SAC, SPA or Ramsar site either alone or in combination with other plans or projects;
- c. any adverse impacts can be mitigated to an acceptable level, with safeguards to protect environmental and amenity interests put in place as necessary;
- d. It can be demonstrated that the integrity of the geological structure is suitable;
- e. an indication of the extent of the reservoir and the extent of the area of search within the reservoir is provided to the Mineral Planning Authority;
- f. exploration and appraisal operations are for an agreed, temporary length of time; and
- g. well sites and associated facilities are restored at the earliest practicable opportunity if oil and gas is not found in economically viable volumes, or they are developed within a time frame agreed.

Sustainability Appraisal of Policy

The exploration and appraisal of onshore oil and gas could have economic benefits both locally and nationally. However as with any development there could be negative environmental and amenity impacts on the local area. The policy seeks to address this by ensuring that the development is located in the least sensitive area, is temporary and that safeguards are put in place.

Production

12.25 If economic concentrations of hydrocarbons are found, the operator may seek to develop the field commercially. This is a complex operation including a number of different elements and options.

12.26 Small fields may be exploited using the existing exploration and appraisal wells. Oil can be stored on site, with tankers transporting the oil to refineries.

12.27 Larger fields may require additional wellhead sites linked by pipelines. Directional drilling, whereby a number of wells are drilled from a single platform, may be used to minimise the number of sites required to exploit the field. Directional drilling is considered preferable to the creation of additional well sites. Above ground facilities, including potentially a gathering

station to provide a central facility to prepare the hydrocarbons for export, and transport links, pipelines and offices may be required. Impacts similar to industrial development may be experienced, with pollution prevention being a potential long-term concern.

12.28 Since various elements are involved in a production site, it is usually beneficial for the development to be considered on a comprehensive basis, rather than a series of separate proposals. A development framework setting out as far as practicable the expected extent and number of facilities required for the development of the oilfield, as well as the anticipated timings for installation, will therefore be required.

12.29 As there is likely to be some flexibility as to the location of extraction and processing facilities, they should be located to minimise adverse effects on landscape, nature conservation interests, residential amenity, historic environment and best and most versatile agricultural land.

12.30 Additionally, it is expected that any adverse impacts will be mitigated to an acceptable level. The Mineral Planning Authority will need to be assured that adequate measures against pollution from spillage are in place.

12.31 The long term management of impacts on the environment will also be required, which should be proportionate to the development. Consideration will need to be given to the use of tree screens and appropriately managed areas around well sites or facilities in order to reduce visual impact. Additionally, where areas are sensitive ecologically, opportunities for habitat management should be explored.

12.32 The life of an oil field or production site is governed by a number of factors, including technology and recovery techniques, economics and regulatory changes. The life and the facilities required could therefore be subject to extension and this may necessitate or provide opportunities for environmental enhancement. It may also require the integrity of infrastructure to be demonstrated to the Mineral Planning Authority where it is proposed that this will continue to be used.

12.33 Where additional fields are discovered during the life of a site, these should be exploited using existing well sites and facilities in order to minimise impacts, unless it would not be technically feasible to do so.

12.34 Proposals for both the development of new oilfields and production facilities, and amendments or extensions to existing sites, should comply with Policy HY2, as well as other relevant policies in this plan (such as the Development Management Policies).

Policy HY2 - Proposals for Production Facilities and Ancillary Development

Proposals for hydrocarbon production well sites and facilities, and other related ancillary development, will be permitted where they meet all of the following criteria:

- a. a full appraisal programme for the oil and gas field has been completed to the satisfaction of the Mineral Planning Authority;
- b. a framework for the full development of the field is submitted for approval by the Mineral Planning Authority;
- c. facilities required for hydrocarbon production sit within the agreed development framework, are justified in terms of their number and extent, and are progressively installed wherever possible;
- d. extraction, processing, dispatch and transport facilities are sited, designed and operated to minimise environmental and amenity impacts and provide proportionate environmental enhancements;
- e. any adverse impacts, both individual and cumulative, can be mitigated to an acceptable level;
- f. it has been demonstrated that possible effects that might arise from the development would not adversely affect the integrity of any SAC, SPA or Ramsar site either alone or in combination with other plans or projects;
- g. existing facilities are used for the development of any additional fields discovered unless the applicant satisfies the Mineral Planning Authority that this would not be technically feasible and any adverse impacts can be mitigated;
- h. where a proposal uses existing production facilities, the integrity of the existing infrastructure can be demonstrated, having regard to local environmental factors.

Sustainability Appraisal of Policy

The production of onshore oil and gas would have economic benefits both locally and nationally and would contribute to a secure energy supply. There are potential negative impacts particularly on landscape and amenity. The policy ensures that impacts are minimised and that oil and gas development provides environmental enhancements.

12.35 Where planning permission is granted, conditions are likely to be imposed governing, amongst other things, the timing and method of gas flaring, the direction of vehicles leaving the site, noise emissions, prevention of pollution, means of disposal of unwanted gas and the method by which the end product is to be transported from the well site or gathering station.

12.36 In relation to internationally designated nature conservation areas, it should be demonstrated that the proposal would not cause any adverse effect either directly or indirectly, in line with Policy HY2 (f) and Policy DM5. There are a number of mechanisms by which

proposals for oil and gas production could impact on such a site, namely through proximity and effects on species, hydrology and the management of such sites. These issues are explained in Chapter 16 and should be fully considered as part of any proposal.

Wytch Farm

12.37 Wytch Farm is now in the latter stages of production, with the site as a whole currently permitted until 2016. The current owners of the site intend to apply for permission to extend the life of the oilfield to 2037. Existing reservoirs have the potential to produce economically viable quantities of oil for the plan period. There will need to be a balance made between the need for continued production and the ability of the environment to accommodate this. Policy HY2 provides the framework for considering proposals related to Wytch Farm.

12.38 Wytch Farm faces a number of unique issues due to its ecological context, whereby some well sites are sited within and amongst European habitats, as well as SSSIs. Consideration therefore needs to be given to the implications of continued production on this sensitive area. A key issue is the need to manage the integrity of European sites. There are a number of ways through which ecological impacts could occur, including through the proximity of well sites to heathland; effects on species and hydrology; and the impacts of continuing nitrogen deposition. The potential implications resulting from a delay in restoration of well sites which coincide with European habitats, should the life of Wytch Farm be extended, is also an important issue.

12.39 An inherent conflict can arise between land management areas established to provide tree screening for well sites, and the ecology of the European heathlands, where tree screens prevent, or at least delay for the lifetime of the development, the favourable management of the heaths for wildlife. Owing to the dispersed nature of the infrastructure at Wytch Farm, and its location within the Dorset AONB, a wider landscape management approach is likely to be desirable to increase the capacity of the landscape to absorb the visible infrastructure, whilst meeting the strict protection afforded to the heaths.

Transportation of Hydrocarbons

12.40 Since there is the potential for further production in Dorset and since oil and gas fields are typically located in relatively remote areas, policy HY3 directs movement to pipelines and railway wherever practicable. Where possible, export terminals should be sited where they can feed into a long distance pipeline.

12.41 Pipelines less than 10 miles require planning permission from the Mineral Planning Authority, whilst any pipeline 10 miles or over would require authorisation from the Secretary of State for Trade and Industry under the Pipelines Act 1962. To ensure that European wildlife sites are safeguarded from any effects of development, proposals including pipelines should comply with Policy DM5 (Chapter 16).

Policy HY3 - Transportation of Hydrocarbons

Hydrocarbon developments will be required to use pipeline or rail haulage. Where it can be demonstrated that this is not feasible, economically and/or environmentally, road transport will be considered.

Where road transportation is the only feasible option, it should be demonstrated that this would not give rise to unacceptable impacts on the environment or highway safety.

Sustainability Appraisal of Policy

The policy seeks to encourage the use of pipelines and rail haulage instead of road transport. This could have short-term environmental impacts but generally in the long-term has environmental and amenity benefits, including in terms of climate change mitigation.

Decommissioning and Restoration

12.42 At the end of their lives, oil and gas production sites are decommissioned. This involves dismantling and removing facilities, prior to full restoration of the land. Depending on the size and number of components of a site, this can be a complex operation resulting in its own impacts. There may be a substantial amount of material that needs to be taken away from the site as a whole, and additional facilities may be required to enable decommissioning to take place. One effect of this is the traffic that will be generated. Additionally, pollution control during decommissioning will be important.

12.43 The Mineral Planning Authority will therefore require a strategy detailing the decommissioning and restoration phases to be submitted for approval, prior to any activities beginning. This should detail the proposed schedule and methods of decommissioning activities, along with timescales, as well as anticipated impacts on environment and amenity, including through transportation and the mitigation proposed. This should be in line with the principles set out in Chapters 15 and 16 on restoration and development management. The content of such a strategy should be discussed with the Mineral Planning Authority in advance of its preparation and should be relative to the scale of operation.

12.44 In line with Policy RS1 (see Chapter 15), restoration should enable the long term maintenance and enhancement of the environment. The restoration scheme for a production site will need to be comprehensive in taking into account the oilfield, well-sites and ancillary facilities as a whole. The removal and restoration of individual well sites and facilities should take place when they are no longer needed in the production process, unless it can be demonstrated that there is a need to retain them that outweighs any effect on the environment or amenity.

12.45 The area in which Wytch Farm is located consists of a mosaic of heathland, farmland, woodland and scrub and restoration will need to take account of the landscape character of the wider area. The area is interspersed with internationally and nationally protected heathlands, which are the subject of ongoing habitat management. Restoration should therefore strive to achieve favourable condition within such designated areas and opportunities for habitat improvement within the wider area should be maximised.

Policy HY4 -Decommissioning and Restoration of Production Facilities and Ancillary Development

The Mineral Planning Authority will require:

- a. restoration of production well sites and ancillary facilities at the earliest practicable opportunity when they are no longer required as part of the production operation, in accordance with the agreed framework for development of the oilfield; and
- b. the submission of a strategy detailing decommissioning and restoration of the site to be agreed prior to the commencement of decommissioning. This should include proposed mitigation where necessary to address identified impacts of decommissioning.

Sustainability Appraisal of Policy

This policy has beneficial impacts particularly on landscape, biodiversity and amenity through restoration. The policy also requires mitigation of impacts arising from decommissioning which protects amenity interests and reduces the adverse effects of transportation.

Unconventional Gas Resources

12.46 Shale gas is a natural gas produced from shale rock. Its extraction uses a new technology known as hydraulic fracturing. Extraction of shale gas does not currently take place in Dorset. Exploration in the UK is at a very early stage and it is unknown whether there is potential for this activity in Dorset or if the geology is suitable. The unique quality of Dorset's coastal environment, the presence of important leisure and tourism interests, and the need to protect local amenity will demand careful attention should there be interest in considering this technology. Shale gas extraction is subject to the same licensing as oil and gas development and would require planning permission for exploration, appraisal or production activities. Any proposal for shale gas development would need to comply with Policy HY1 or Policy HY2, as well as other relevant policies in this plan (including the Development Management policies).

12.47 Impacts from shale gas extraction may include noise and vibration. Proposals would need to demonstrate that the integrity of the geological structure will remain intact and that there would be no adverse impact on ground stability during or after extraction. Of key

importance will be the need to avoid any harm to the outstanding universal value or integrity of the Dorset and East Devon Coast World Heritage Site, including the stability of the cliffs, and its setting. As such, proposals must comply with Policy DM2. Particular attention should also be given to potential effects on water resources to ensure that there would be no adverse impact in line with Policy DM3, as well as the disposal of water produced during well stimulation and gas production.

Underground Gas & Carbon Storage

12.48 Underground natural gas storage facilities are required in the UK to assist in securing our energy supply. Additionally, technological advances now offer the potential for carbon dioxide emissions to be captured, thereby preventing their release into the atmosphere. As with natural gas, carbon dioxide requires suitable underground storage facilities. The National Planning Policy Framework states that mineral planning authorities should encourage underground gas and carbon storage if local geological circumstances indicate its feasibility.

12.49 Such Storage facilities can be provided in salt caverns (by either conventional underground mining or by solution mining) or depleted oil and gas fields (showing a proven capability to retain hydrocarbons for millions of years).

12.50 In Dorset, it is known that there is a thick layer of Triassic rock salt with the necessary properties for underground gas storage, and suitable for the creation of salt caverns through solution mining. A known suitable area lies in the Weymouth and Portland area.

12.51 Planning permission was granted in July 2008 for the Portland Gas Storage facility and associated development. Portland Gas Storage has a permitted storage capacity of 1000 million cubic metres, comprised of 14 salt caverns located underground (at a depth in excess of 2000m) at the north-east corner of the island. This is equivalent to 1% of the UK's total annual demand. This will be linked by pipelines to the nearest point on the National Transmission System at Mappowder in North Dorset. Gas is to be taken and stored in the Portland facility and then returned, as and when required by the storage users.

12.52 The facility is expected to be constructed and put into operation during the plan period. There is also potential for increasing the capacity of this facility.

12.53 Proposals for underground gas storage will be considered against Policy HY5, as well as other relevant policies in this plan (such as the Development Management policies). Sites and associated development should be located to minimise any impacts. Consideration should also be given to potential impacts on the environment and amenity during construction phases. To ensure that European wildlife sites are safeguarded from any effects of development, proposals should comply with Policy DM5 (Chapter 16).

Policy HY5 - Underground Gas Storage & Carbon Storage

Proposals for underground gas storage in suitable geological structures will be permitted where the Mineral Planning Authority is satisfied that all of the following have been achieved:

- a. the proposed site has been selected so that adverse impacts on the environment and residential amenity are not significant and in any case are kept to the minimum practicable
- b. associated surface development is the minimum required and is appropriately located
- c. the capacity and integrity of the geological structure has been proven suitable
- d. where possible, positive environmental enhancements (associated with the development) are demonstrated.

Sustainability Appraisal of Policy

Although the sustainability appraisal highlights many potential negative impacts related to proposals for underground gas storage, the majority of these will be minimal and limited to the construction phase. Such impacts would be minimised through the application of this policy and the development management policies of the core strategy. Underground gas storage would provide increased security of gas supplies and would be of national economic and social importance.

13 Other Minerals

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Common Clay

13.1 Common clay includes clays extracted for brick and tile manufacture or for other purposes such as lining landfills and puddling.

13.2 Wide Tertiary clay vales (comprising Reading Formation and London Clay) and Cretaceous (Wealden) clays are found in Dorset and are regarded as a relatively abundant resource, concentrated primarily in the south east of the county.

13.3 There is currently only one operational clay pit in Dorset. Wealden clays are extracted at Godlingston, north of Swanage. These are used in the on site production of bricks characteristic of the local area and for specialised markets, including hand made bricks in a variety of sizes and colours to suit customer requirements. Approximately 3 million bricks are produced per annum. This is small scale when compared with the total UK production of around 2 billion bricks per annum. The predominant markets for the brick produced are the south east of England but bricks are also supplied locally and into other parts of the UK and Ireland.

13.4 Current reserves of brick clay at Godlingston are in excess of 25 years based on current geological understanding of the site and therefore sufficient for the plan period. Reserves of Wealden Clay need to be safeguarded from other non minerals development to allow for future extensions. This is covered in Chapter 14.

13.5 Until recently, Tertiary clays, were also worked at Knoll Manor, near Corfe Mullen, and used in a tile making plant at Hamworthy. Although not currently in use, a valid permission for extraction still exists.

13.6 It is unlikely that demand for Dorset's common clays will change significantly from the current low-key extraction rates. As the reserves at Godlingston are sufficient to ensure an adequate supply of clay throughout the plan period, it is not considered necessary to identify specific sites for the extraction of common clay within the Minerals Site Allocations Document.

13.7 If proposals do come forward for additional clay pits, the Development Management policies set out in Chapter 16 provide the framework to assess proposals, particularly DM1 which sets out key criteria for sustainable minerals development.

Chalk

13.8 Chalk is widely found in the plan area, extending in a broad swathe from Ashmore and Cranborne in the north east, across the rural county in a south westerly direction towards Eggerdon Hill and in an easterly narrowing band towards Swanage. Its outcrop largely coincides with the AONB areas in Dorset.

13.9 The chalk is of Upper Cretaceous age and can be used in the manufacture of cement, dressings for agriculture and as a filler, extender or whitening agent in the manufacture of paint, paper, polymers and pharmaceuticals. Due to its quality, its end uses have been generally limited to agricultural dressings, lime mortars and as a low grade fill material.

13.10 There is currently one site with permission for the extraction of chalk at Whitesheet Hill, west of Maiden Newton. This site, permitted under a ROMP in 2009, contains reserves of two products, screened lime for spreading on fields as agricultural improver and lump chalk for use on cow tracks and cattle shed floors. Based on current figures it is thought that this site has sufficient reserves for around 23 years extraction.

13.11 There are also a number of very small excavations authorised under agricultural permitted development and it is thought that this will continue where small quantities of material are required.

13.12 In view of the low demand for this material and current reserves it is not considered necessary to identify further sites for chalk extraction in the Minerals Site Allocations Document.

13.13 If proposals do come forward for additional workings they will be required to demonstrate a need for the chalk. The Development Management policies set out in Chapter 16 provide the framework to assess proposals, particularly DM1 which sets out key criteria for sustainable minerals development.

Silica (Industrial) Sand

13.14 Silica sands contain a high proportion of silica in the form of quartz and are an essential raw material for many industrial purposes. The distinction between sand used for industrial purposes and used for construction aggregate is based principally on application and market specifications, with different uses demanding different combinations of properties. Silica sand with potential for industrial use is geologically and geographically sparsely distributed within the UK, with Dorset being the only producer in the south west.

13.15 In Dorset, sand for industrial/non-aggregate use is primarily sourced from the Poole Formation. These sands are an important source of construction aggregate but they are also highly siliceous and relatively clean, making it possible to work them on a modest scale for industrial applications. However, the Poole Formation is not a nationally important resource of silica sand, probably due a lack of important local markets and increased competition from other silica sand resources in more distant markets⁽²²⁾.

13.16 The Mineral Planning Authority is required by national policy to make a contribution to national requirements and will aim to maintain a landbank of silica sand permissions, as far as possible and realistic, provided that the industry comes forward with suitable applications. The system used to ensure a landbank and continuing flow of aggregate minerals cannot readily be applied to silica sand for industrial uses given the specialised requirements of the silica sand industry.

13.17 Due to the national need for silica sand, it is important that each production site maintains an adequate landbank unless exceptional circumstances prevail. To achieve this, the Mineral Planning Authority will aim to ensure that a landbank of at least 10 years is maintained for individual sites. The need for the mineral must be balanced against

22 Mineral Resource Information for Development Plans: Phase One Dorset, Bournemouth and Poole - British Geological Survey Technical Report WF/01/01 2001

environmental and amenity constraints and there may be overriding environmental and/or amenity reasons why the stock of permitted reserves at some sites may not be replenished as they are used up. In practice, there could be difficulties as production data may be confidential at site level, but it will be difficult to calculate landbanks or to make specific provision in mineral local plans without this information.

13.18 It is expected that production of industrial sand will primarily be from existing quarries, but could require new sites or extensions to existing sites. Silica sand for industrial uses has in the past been produced at Henbury, Warmwell and Binnegar quarries. Production from Binnegar has ceased, but continues at Warmwell and Henbury. All sand production is expected to cease at Warmwell within the next 2-3 years. At Henbury it is estimated that a 10 year landbank exists for some grades of sand, but reserves are insufficient to maintain a 10 year landbank to 2028 at present sales. Continued production of industrial sand will be investigated through the site allocations process. Industrial sand deposits are safeguarded through the safeguarding of the wider Poole Formation resource. As industrial sand is primarily sourced from the Poole Formation, new sites or extensions to existing sites will be located within the Bedrock Sand Resource Block shown in Chapter 7.

Policy IS1 - Industrial Sand

The Mineral Planning Authority will ensure that an appropriate contribution is made to the national requirement for silica sand for industrial uses. This will be achieved through existing production sites, extensions to such sites and/or at new sites, provided that:

- a. the necessary resources are available and located within the Bedrock Sand Resource Block, and;
- b. the need for the mineral can be demonstrated, and;
- c. any adverse impacts associated with extraction, processing or transportation can be avoided or satisfactorily mitigated.

Sites will only be considered where it has been demonstrated that possible effects (related to hydrology, displacement of recreation, species, proximity, land management and restoration) that might arise from the development would not adversely affect the integrity of the Dorset Heaths SAC, Dorset Heathlands SPA and Dorset Heathland Ramsar site either alone or in combination with other plans or projects.

Sustainability Appraisal of Policy

Maintaining a supply of industrial sand will generally have negative environmental and amenity impacts, although the site assessment process will seek to identify the least sensitive locations for development within the resource blocks. Impacts will also need to be adequately mitigated in accordance with other policies and assessments. The policy will however ensure continued supply of this nationally scarce industrial mineral.

Figure 24 Locations of sites for Chalk, Clay, Industrial Sand



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14 Safeguarding

14 Safeguarding

Key Issue - Mineral Safeguarding

To determine which minerals and minerals extraction/processing/transportation sites should be safeguarded and how this should be achieved.

Introduction

14.1 Minerals can only be worked where they are found. In the plan area, potential mineral working areas may be limited by landscape and environmental designations or existing settlements; there may also be competition from non-minerals development. Government policy requires proven mineral resources to be safeguarded from sterilisation (such as being covered by buildings) and that there should where practicable be prior extraction of the mineral if it proves necessary for built development to take place.

14.2 Identification of mineral safeguarding areas does not provide a presumption in favour of working the mineral, and is not a guarantee that there is mineral present of viable quantity or quality.

Minerals to be safeguarded

14.3 The key mineral resources in the plan area are aggregates (river terrace sand and gravel, Poole Formation sand and crushed rock), limestone (including Portland Stone, Purbeck Stone and other building stone), hydrocarbons and ball clay. The Poole Formation sand includes sand produced for non-construction purposes. Given its importance, the aggregate resource that can be extracted economically will be safeguarded, along with the limestone and ball clay resource.

14.4 Hydrocarbons are economically important but since they are found deep underground they are not specifically safeguarded. The sites where they are extracted and processed are protected.

14.5 Other minerals include brick clay and chalk, but since demand for these is significantly less and it is unlikely that this situation will change in the long term, these resources are not considered to be of economic importance and are not safeguarded. There is one exception, namely the Wealden Clay resource around the existing Swanage Brickworks. A limited area west of the site is safeguarded to ensure the availability of future supplies.

Safeguarding the minerals resource

14.6 Two separate designations are applied for the purposes of mineral safeguarding, the Mineral Safeguarding Area (MSA) and the Minerals Consultation Area (MCA). The MSA identifies the mineral resource identified by the Mineral Planning Authority as worthy of safeguarding. The MCA identifies the area within Dorset County Council where the district and borough authorities are required to consult the Mineral Planning Authority over

non-minerals development. Both the MSA and the MCA will be identified on the Minerals and Waste Development Framework Submission Policies Map and reflected on Local Development Framework Adopted Policies Maps.

14.7 The minerals safeguarding approach does not seek to predict how much mineral is likely to be needed over the plan period but safeguards the viable mineral resource. Viability will change over time – with increasing scarcity, resources that are currently considered non-viable will become increasingly viable. However, the Minerals Strategy does not safeguard the entire mineral resource – the best current estimate of viable resources is safeguarded for future assessment and possibly use.

Mineral Safeguarding Area

14.8 In Bournemouth, Dorset and Poole, the MSA predominantly comprises the proven mineral resource (based on mapping prepared by the British Geological Survey) and amended to exclude:

- a. previous and current workings
- b. roads
- c. urban areas and
- d. proposed urban extensions (where these coincide with the safeguarded building stone resource).

14.9 For sand and gravel, the MSA is based on mapping prepared by the British Geological Survey (BGS)⁽²³⁾ and additional work commissioned from them on the sand and gravel resource⁽²⁴⁾. Although this identified considerable reserves of sand and gravel within Bournemouth and extending into Poole, the majority of this resource is not safeguarded given its location within an urban area. However, more open areas to the north of Poole and Bournemouth where an aggregate resource exists have been included within the MSA.

14.10 A Ball Clay Consultation Area was identified in 1953, covering 147 km² of the Wareham Basin. This was updated in 2009 in consultation with the industry. This Consultation Area is designated as the ball clay Mineral Safeguarding Area and has been incorporated into the Mineral Safeguarding Area for Bournemouth, Dorset and Poole. It does not include land below the High Water Mark. The recent British Geological Survey ball clay study⁽²⁵⁾ has confirmed no changes are needed to the current ball clay safeguarding area.

14.11 For Portland Stone, Purbeck Stone and other building stones, the areas to be safeguarded are the outcrops of these minerals as identified by British Geological Survey resource mapping, with roads, urban areas and existing mineral permissions removed. These have been modified and adjusted, removing those areas not considered worthy of safeguarding. Finally, the area of brick clay resource adjacent to the Swanage Brickworks (referred to in Chapter 13) is also included within the MSA.

23 DiGMapGB-100 Mineral Resource data for Dorset, plus buffer (BGS 2007).|

24 Background Paper 1: Dorset, Bournemouth and Poole Sand and Gravel Assessment (BGS External Report CR/11/049)

25 Background Paper 5: Ball Clay: a geological reappraisal to inform resource planning (BGS Minerals and Waste Programme Commissioned Report CR/11/50)

14.12 Non-mineral development within the MSA must demonstrate that the sterilisation of proven mineral resources will not occur as a result of the proposed development, and that the development would not pose a serious hindrance to future extraction or processing in the vicinity. If there is a clear and demonstrable need for the non-minerals development to go ahead, the Mineral Planning Authority will work with the relevant district/borough and/or the developer to assess the feasibility of, and where possible ensure, prior extraction of an agreed proportion of the mineral resource before it is sterilised.

14.13 It is expected that the developer will carry out the necessary site investigations to prove the mineral resource. These will take into account factors such as the availability of the mineral, its relative scarcity, the timescale for the development going ahead, the possible extraction of the mineral and the viability of such extraction.

Policy SG1 - Mineral Safeguarding Area

The Mineral Planning Authority will resist proposals for non-mineral development within the Mineral Safeguarding Area, as shown on the Submission Policies Map, unless it can be demonstrated that the sterilisation of proven mineral resources will not occur as a result of the development, and that the development would not pose a serious hindrance to future mineral development in the vicinity.

Where this cannot be demonstrated, and where there is a clear and demonstrable need for the non-minerals development, prior extraction will be sought where practicable.

Sustainability Appraisal of Policy

This policy specifically aims to protect the undeveloped mineral resource in Dorset, Bournemouth and Poole from sterilisation by non-mineral development and ensure a sustainable supply of mineral for future generations.

Mineral Consultation Area

14.14 As the Boroughs of Bournemouth and Poole are Mineral Planning Authorities in their own right, MCAs are **not** designated in the Bournemouth or Poole areas. In the Dorset County Council area, a MCA is designated in addition to the MSA, having the same boundaries as the MSA. District and borough authorities within the Dorset county area are required to consult Dorset County Council over non-minerals development proposals within the MCA. The MCA will be mapped and supplied to the districts/boroughs for use in their development management role.

14.15 The definition of development triggering a consultation is:

- a. Any extension of and/or change to the curtilage of a property within the MCA;

- b. Any material change in the use of land, particularly a change of use to residential areas, dwellings, schools, churches, visitor/tourist attractions, recreational areas, hospitals, hospices, travellers sites, cemeteries and prisons within the MCA;
- c. Any new built development proposed within the MCA.

14.16 Development within the curtilage of an existing property **does not require consultation**, in order to exclude the majority of routine householder applications.

Policy SG2 - Mineral Consultation Area

District and Borough Councils will consult the County Council as Mineral Planning Authority on proposals for non-minerals development within the designated Mineral Consultation Area, as shown on the Submission Policies Map. The Mineral Planning Authority will resist inappropriate development within the Mineral Consultation Area.

Sustainability Appraisal of Policy

This policy ensures that district and borough councils consult the MPA in cases where minerals may be sterilised by non mineral development, therefore contributing to ensuring a sustainable supply of mineral for future generations

Safeguarding minerals facilities and other related development

14.17 Existing minerals sites and facilities are considered to include (but are not necessarily limited to) bulk transport facilities (including pipelines), industrial processes utilising minerals (such as roadstone coating plants and concrete batching and concrete product plants), aggregate rail depots and wharves, existing and permitted but not yet worked quarries, mines and associated plant, existing oil and gas production facilities, aggregate recycling facilities and any sites proposed through the Minerals and Waste Development Framework for any such uses. Some of these sites may be of a relatively low land value and could be vulnerable to pressures for redevelopment for other uses. However, they could be difficult or impossible to replace if lost to other uses.

14.18 The Minerals Strategy safeguards all such sites in Bournemouth, Dorset and Poole. There should be no non-minerals development within or in the vicinity of a safeguarded minerals site or location that could encroach on the minerals operation and/or prevent or prejudice the working or processing of minerals in any way. This is intended to protect both the mineral and the non-mineral uses. This safeguarding requirement may be set aside where it can be demonstrated that there will either be no adverse impacts on the production of minerals, or any adverse impacts can be satisfactorily mitigated.

Policy SG3 - Safeguarding of mineral sites and facilities

The Mineral Planning Authority will resist development that could prejudice the use of safeguarded operational and/or permitted mineral sites (including quarries, mines, associated plant and infrastructure and facilities) unless:

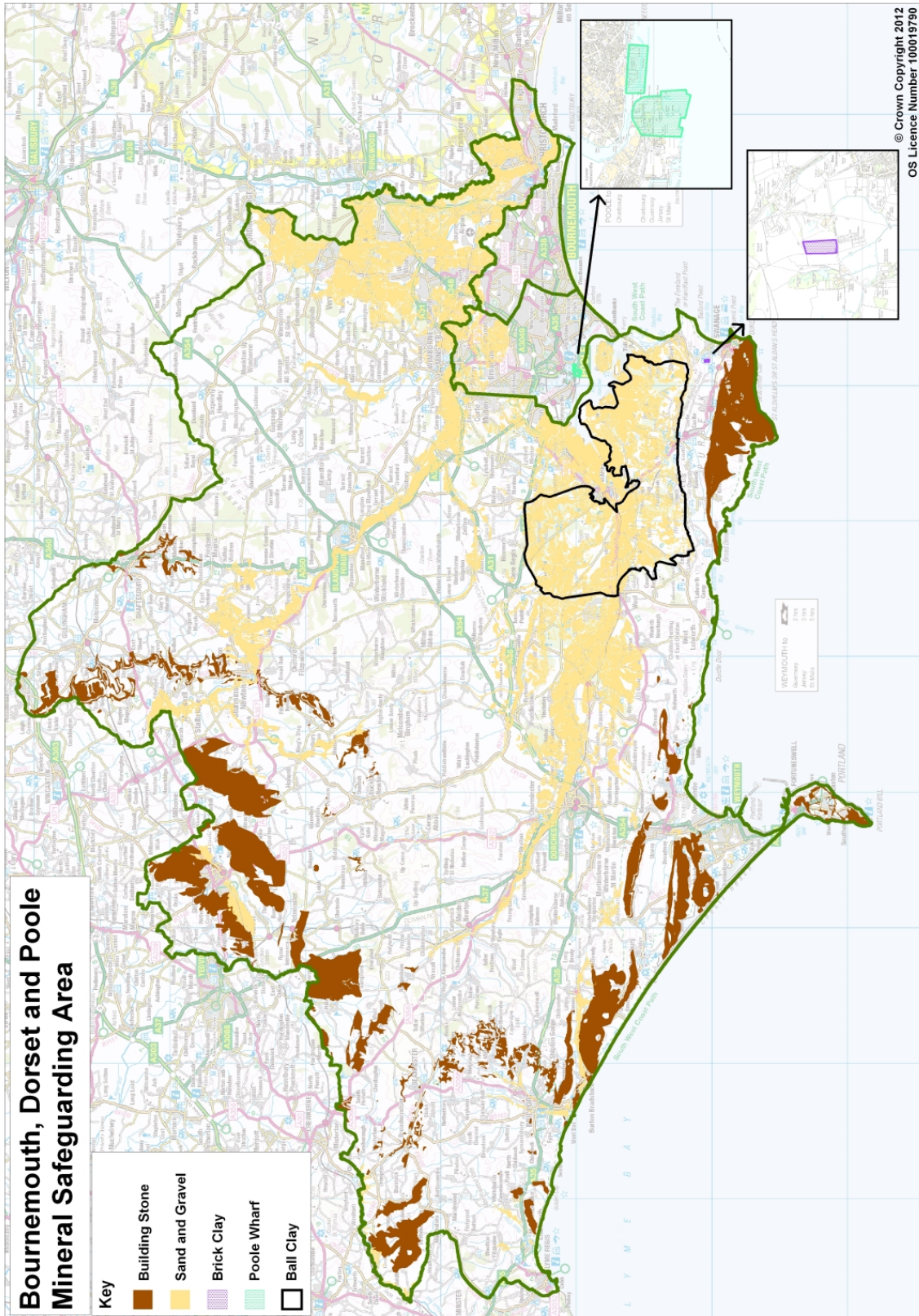
- a. an alternative site within an acceptable distance can be provided, which is at least as appropriate for the use as the safeguarded location (and there would be no break in operations); or
- b. it can be demonstrated by the applicant that there is no longer a need for a facility of this nature in the area; or
- c. it can be demonstrated that the site is unused or dormant and is unlikely to come back into use during the lifetime of the plan.

Sustainability Appraisal of Policy

This policy specifically aims to protect existing minerals sites and facilities from sterilisation by non-mineral development and seeks to ensure a sustainable supply of mineral for future generations.

14.19 The Mineral Safeguarding Area is illustrated on figure 25. For the Dorset County Council area, the Mineral Safeguarding Area coincides with the Mineral Consultation Area.

Figure 25 Mineral Safeguarding Area



15 Restoration, Aftercare and After Use

15 Restoration, Aftercare and After Use

Introduction

15.1 Although mineral working is a temporary land use, worked sites which are not appropriately restored can result in permanent adverse impacts on the environment, dereliction and lost opportunities. The overall restoration process includes the separate processes of site restoration and after-care, both of which prepare for the eventual after-use of the restored site. They cover any operations associated with the winning and working of minerals that are designed to return the land to an acceptable landform and after-use. They include preparations before mineral extraction and operations after extraction up until a final use has been established on site. Restoration of mineral voids offers a significant opportunity for the establishment or re-establishment of priority habitats, particularly through providing re-created linkages between fragmented blocks of specific habitat types, such as heathland.

15.2 The overall restoration process determines the amount of disturbance that may be experienced at any one time as a result of mineral working. It also establishes the long-term potential of the land for a wide range of after-uses that can benefit the local and / or wider community. The phasing of operations (i.e. sequential opening, working and restoring of separate parts or phases of the overall minerals site) is an important factor influencing the acceptability of minerals extraction to local residents.

15.3 There are two aspects to restoration considered in this chapter - the strategic/spatial approach to restoration within Bournemouth, Dorset and Poole and more detailed and specific guidance on specific site restoration. The latter looks in more detail at the separate aspects of restoration, aftercare and after use.

The Strategic Approach - Landscape Management Guidelines

15.4 Achieving high quality restoration must be integral to any proposals for minerals development. The strategy for restoration of minerals sites is consistent across the county and at the same time guides the restoration process towards a landform and land-use which are appropriate to the local landscape and biodiversity contexts.

15.5 The restoration strategy is based on the landscape types of the county. These are distinct types of landscape across the county that are relatively uniform in character, sharing broadly similar combinations of geology, topography, drainage patterns, vegetation, historical land use and settlement pattern. Examples include Limestone Plateau, Heath Forest Mosaic or Limestone Hills.

15.6 Specific land management guidelines relevant to each landscape type have been prepared and provide a broad framework for managing change. The guidelines establish specific principles for mineral site restoration within each landscape type, which are appropriate to that landscape type. They provide practical and locally relevant advice to developers, landowners, local authorities and the general public as to what will be expected through restoration of the land following mineral working. As a result, the restoration process is intended to ensure that the finished site will integrate easily into the landscape in which it

sits. The guidelines should also ensure that the restoration process creates or enhances any Biodiversity Action Plan (BAP) priority habitats which might be typical of the relevant landscape type.

15.7 The Landscape Management Guidelines are available as Background Paper 16: Restoration. Further and more detailed guidance on restoration will be provided through a subsequent Supplementary Planning Document, should this prove necessary.

Specific Guidance – Restoration

15.8 Restoration includes establishing the post-extraction land levels and landform, returning the soils stripped prior to extraction and preparing for the after-care stage. The Mineral Planning Authority encourages, where appropriate, the phased restoration of mineral sites with land restored as extraction progresses. This will minimise the area of land disturbed at any one time, limit the impacts upon sensitive areas and reduce the overall period of disturbance. Phased restoration also helps to gauge the initial success of the restoration scheme by showing what aspects have worked well and indicating those that have not.

15.9 Phased restoration is not appropriate or even possible in all cases. For example, some quarries are small (such as some building stone quarries) while others (such as ball clay quarries) are required to be kept open while mineral is extracted from different areas of the quarry. In such cases the most appropriate approach to restoration will be determined at the planning application stage.

15.10 Proposals for minerals development should be accompanied by a restoration scheme that provides comprehensive details of the order and timing of phases of mineral working, restoration and of the final main afteruses. Where possible the proposed scheme should incorporate some element of flexibility to take account of changing circumstances during the life of the development and beyond. It should aim to integrate and facilitate the delivery of any relevant mitigation measures, as identified in assessments undertaken to support the planning application. It is strongly advised that these matters are discussed with the Mineral Planning Authority at the pre-application stage, and where possible involve input from relevant key stakeholders to resolve any potential conflicts of interest.

15.11 The restoration process should be carried out in a timely manner, with developers indicating a reasonable time-frame for the restoration process as part of their initial restoration proposals. Where practicable, the overall scheme of working should include internal haul roads and ensure that these do not pass through earlier phases of the development that have already been restored. The Mineral Planning Authority will, in circumstances where it is considered necessary, require financial guarantees to ensure satisfactory and timely restoration.

15.12 Soils must be adequately protected and maintained throughout the life of the development, particularly if a site comprises land that qualifies as best and most versatile agricultural land. Where necessary, proposals for minerals development should be supported by a site specific Land Classification Survey, undertaken by an independent expert to determine the grading and agricultural value of the proposed site. The survey should incorporate a report/statement of physical characteristics, providing detailed information

about the soils, subsoils and overburden within the boundaries of the site. Where the proposed afteruse is to be one which requires little or no soil, e.g. a lake or a nature reserve requiring impoverished soil resources, it would be better for soils to be removed from site and used beneficially elsewhere.

15.13 The results of the assessment should be used to inform the restoration scheme and provide details of the measures that will be needed to ensure the adequate protection of these soil resources during stripping, storage and management. The Mineral Planning Authority will be able to inform applicants at the pre-application discussion stage whether a proposal will require a Land Classification Survey. Information on Agricultural Land Classification and Land Classification Surveys can be found on the Defra website⁽²⁶⁾.

15.14 In some cases, materials (such as inert waste) will need to be imported to ensure that the site can be restored and returned to a beneficial after-use. Phased restoration of a site may require an adequate and timely supply of suitable material in order to ensure that the development can proceed on schedule. However, inert fill material may not necessarily be available in the required quantities and timescales, since the introduction and application of Landfill Tax has reduced the amount of inert material available. In addition, Government encourages the recycling and use of construction and demolition waste as an alternative to primary aggregates. The Mineral Planning Authority will require developers to demonstrate that materials to be imported for restoration purposes are both suitable (based on the advice of the Environment Agency) and are available in sufficient quantity and when needed to achieve the proposed restoration scheme. As far as possible recyclable material should already have been removed from inert material to be used in site restoration.

15.15 The restoration of quarries through the importation of waste will require approval by the Environment Agency in the form of an Environmental Permit, or possibly an exemption from Environmental Permitting Regulations. The Environment Agency will not normally issue an Environmental Permit for infilling of waste in Groundwater Source Protection Zone One.

15.16 As noted earlier, biodiversity gains can be achieved through the restoration of mineral sites by contributing to Dorset Biodiversity Strategy targets. It may be possible for an active quarry Biodiversity Action Plan to be produced for a particular site, outlining in detail how the site will seek to enhance biodiversity. Phased restoration schemes should incorporate measures such as advance tree planting (where appropriate), to ensure that biodiversity benefits are realised at the earliest opportunity.

15.17 One of the potential impacts of climate change will be more extreme climate events, such as flooding. Careful site restoration can provide a buffer for existing areas/habitats from such events - for example, restored mineral workings can provide storage capacity during extreme flood events, thus helping to protect areas at risk of flooding.

15.18 National policy states that certain forms of development, including mineral extraction, are not inappropriate in Green Belt provided they preserve the openness of the Green Belt and do not conflict with the purposes of including land in Green Belt. Mineral development,

26 Agricultural Land Classification of England and Wales (MAFF 1988) and Defra Guidance for Successful Reclamation of Minerals and Waste Sites (Defra 1999).

including buildings for the handling and processing of minerals, can be accommodated within the Green Belt provided that high standards of design including landscape design are maintained and all development is tied to the life of the extraction.

15.19 Minerals development will be expected to contribute, where relevant, to the green infrastructure (strategic networks of well-planned, multi-functional green spaces) of Bournemouth, Dorset and Poole, particularly through the restoration and after-use of minerals development sites. Restored minerals sites can also, where appropriate, function as Sustainable Alternative Natural Greenspace (SANG), serving to offset visitor and other pressures on European and other designated sites. The green infrastructure that can be provided through minerals planning can make a significant contribution to mitigating and adapting to climate change. Benefits include:

- a. providing flood water storage, sustainable drainage, urban cooling and shading;
- b. creating and enhancing wildlife and habitats and 'green corridors' for wildlife;
- c. creating attractive and sustainable communities;
- d. improving health and the social development of children;
- e. providing focal points for community activities;
- f. absorption of atmospheric carbon;
- g. increased quality of life and well-being of rural communities through access to local sports and recreation facilities.

Specific Guidance - Aftercare

15.20 After the mineral has been extracted and the stripped soils returned, the aftercare period is the time when the site is prepared for the agreed after-use. Aftercare can include the processes of cultivating, fertilising, planting, draining and otherwise treating the land. The minerals operator is normally still responsible for the site at this time. An appropriate period of aftercare is needed to ensure mineral sites are restored to a standard suitable for their intended after-use.

15.21 Different after-uses may require different periods of aftercare. The statutory after-care period is 5 years, but some uses such as nature conservation may benefit from an aftercare period of up to 20 years or more, whilst agriculture may only need a 5 year aftercare period. Where possible and where appropriate, voluntary extended after-care periods will be negotiated for those uses that would benefit from such longer periods.

15.22 It is important that management responsibilities are identified and agreed between the developer and those taking on the post-extraction/restoration management of the site, to ensure that the proposed after-use can and will be delivered. The Mineral Planning Authority will encourage developers to enter into planning agreements to ensure that the appropriate aftercare provisions remain in effect for the required aftercare period.

15.23 In exceptional circumstances where the Mineral Planning Authority is unable to gain the necessary assurances that restoration will be implemented in accordance with the requirements of the Minerals Core Strategy, developers will be asked to make or demonstrate funding guarantees to ensure that funding will be available for the restoration of sites.

Specific Guidance - After-use

15.24 The after-use is the agreed use to which the site will be returned following mineral development, usually either a use providing employment opportunities (such as agriculture or forestry) or a nature conservation or recreational use or some combination of these. At this stage the mineral operator is normally no longer responsible for the site and it is handed back to the original owner or some other agency for on-going use and management. After-use proposals should have regard to the wider context of the area within which restoration proposals are planned. This will ensure the most appropriate after-use is achieved.

15.25 The reclamation of mineral sites must consider the potential impacts upon landscape character. Landscape Character Assessments (LCAs) can be used to describe and map the landscape and provide information on which judgements can be made about what is important and why. The Dorset Landscape Character Assessment (and other locally produced LCAs) along with the landscape type management guidelines referred to earlier, should be used to inform the type and design of restoration, aftercare and after-use proposals, in order to ensure schemes are appropriate in terms of effects upon the landscape. Reclamation should also take into consideration the historic landscape and cultural heritage, and any possible impacts on these.

15.26 In addition, restoration should take into account the relevant Local Development Frameworks and where appropriate contribute to the delivery of those Frameworks. Minerals companies will be encouraged to involve local communities and parish councils when considering options for restoration and aftercare.

15.27 Minerals development in Dorset generally occurs in rural areas where agriculture is the predominant land use and often sites will be restored to agriculture/forestry. Agricultural restoration can deliver biodiversity gains through creation of BAP Priority Habitats (such as hedgerows, ponds and arable field margins) and features for BAP species associated with agriculture (such as skylark strips). In addition, where the most appropriate after-use is identified as agricultural purposes, the growing of non-food crops such as bio-mass energy crops should be considered given the benefit this brings in mitigating the effects of climate change.

15.28 In areas where the water table is relatively close to the surface, restoration to a water-based after-use is often the most practicable approach. However, proposals for mineral extraction may fall within an Airfield Safeguarding Area where water based restoration proposals may not be suitable, and restoration schemes must address the issue of risk of birdstrike to aircraft. This is covered in Policy DM9.

15.29 Policy RS1 encourages a range of after-use proposals which may benefit local communities. These include the creation of employment opportunities or recreation/amenity open space, including public rights of way. It is acknowledged that the after-use of mineral sites will not always provide economic benefits, especially where restoration will lead to habitat creation, but the provision of employment and opportunities for inward investment associated with recreation and tourism may be possible in some cases.

Policy RS1 - Restoration, Aftercare and Afteruse of Minerals Development

Proposals for minerals development will be permitted where they demonstrate a high quality and appropriate restoration scheme which will enable an appropriate after-use and the long-term maintenance and enhancement of the environment. They will be required to have regard to the Landscape Management Guidelines and, where possible, contribute to the targets of the Dorset Biodiversity Strategy.

Proposals must demonstrate that:

Restoration

- a. Where possible the restoration scheme incorporates phased restoration of the site that will minimise the period of operations to protect settlements and residential amenity and to minimise the duration of landscape impacts;
- b. Measures will be taken to ensure that soil quality will be adequately protected and maintained throughout the life of the development and, in particular, during stripping, storage and management of soils, subsoils and overburden arisings as a result of site operations;
- c. There is an available supply of appropriate materials to be used for restoration purposes, as required to implement the proposed restoration scheme;
- d. The restoration scheme will maximise the potential of the site for the successful adoption of the proposed after-use and where necessary offer flexibility for a range of potential after-uses;
- e. The restoration scheme indicates the amount of time expected to be required for restoration of the site;
- f. Where appropriate, geological exposures will be retained;
- g. For sites within the Green Belt, all minerals-related and other uses will have ceased by the time the extraction has been completed and the site will be restored in a manner appropriate to its original inclusion in the Green Belt designation;
- h. Financial provision is, in exceptional circumstances, made for the proposed restoration.

Aftercare

- g. The aftercare scheme incorporates an aftercare period of at least five years; where appropriate, voluntary longer periods for certain uses will be sought through agreement.

After-use

- i. Where the proposed after-use is agriculture, provision is made for retention or replacement of soils and any necessary drainage, access, hedges and fences;
- j. Where the proposed after-use includes habitat creation, it should contribute to the delivery of the Dorset Biodiversity Strategy objectives where appropriate;

- k. The after-use will be compatible with the wider context of the site, in terms of the character of the surrounding landscape and historic environment (informed by the Dorset Landscape Character Assessment and Historic Landscape Character Assessment) and existing land uses in the area, having considered the relative potential benefits of alternative after-uses in local or national terms;
- l. The green infrastructure network will, where possible, be strengthened and improved;
- m. Where opportunities arise, the after-use provides benefits to the local and wider community which may include enhancement of biodiversity and geodiversity interests, linking of site restoration to other green infrastructure initiatives, enhanced landscape character, improved public access, employment, tourism or provision of climate change mitigation measures.

Sustainability Appraisal of Policy

This policy specifically seeks to secure long term social and environmental benefits through restoration and site afteruse.

Retention of Plant and Machinery on Site

15.30 An existing mineral operation such as a quarry may incorporate other uses such as aggregate recycling or block making which benefit from a location within a quarry. In such cases it may be more appropriate to retain the plant and machinery associated with the additional use(s) on site after mineral extraction has ceased, rather than moving to an alternative site.

15.31 However, there will also be cases where the ancillary development will be required to be removed as part of the restoration process. Policy RS2 sets out the basis on which the acceptability of retaining the ancillary development is assessed to determine whether it should be allowed to remain or should be removed. In the case of existing buildings, plant or ancillary development at a mineral operation where the original development is coming to the end of its life, the need for retaining plant/machinery must be demonstrated.

Policy RS2 - Retention of Plant, Machinery and other Ancillary Development

Permission for the retention of plant, machinery and any other ancillary development associated with any mineral development/operation will not extend beyond the life of the development with which it is associated, or any earlier date that may be set, except where it can be demonstrated that:

- a. there is an identified need for the continued use of the plant, machinery or ancillary development at that site or any extension to it;
- b. any adverse impacts associated with retaining the plant, machinery or ancillary development can be avoided or mitigated to an acceptable level; and
- c. retention of the plant, machinery or ancillary development does not affect restoration of the wider site.

Sustainability Appraisal of Policy

This policy will ensure that sites are restored at the earliest opportunity unless there are identified needs for its retention. This has environmental and amenity benefits. There should not be significant detrimental impacts economically as plant and machinery will be able to be maintained if there is an identified need. Although adverse impacts would need to be avoided or mitigated.

Local Liaison Groups

15.32 The Mineral Planning Authority encourage and support the establishment of local liaison groups for the lifetime of any site, including both working and restoration. These groups are set up so that any issues of concern relating to the development can be discussed and resolved as soon as possible after the problems arise. The groups may include officers of the Mineral Planning Authority and the District/Borough, the developers, local communities and other interest groups where relevant.

Policy RS3 - Local Liaison Groups

The Mineral Planning Authority will encourage the establishment of local liaison groups to run for the lifetime of any minerals extraction site.

Sustainability Appraisal of Policy

The main impact this policy has, in terms of sustainable development, is social. This policy focuses on the encouragement of the setting up of local liaison groups. These groups may discuss and address the concerns of people who live in the vicinity of mineral operations thereby attempting to improve quality of life.

16 Development Management

16 Development Management

Introduction

16.1 Planning permission is required for minerals development and the main principles upon which decisions on planning applications will be based are set out in this section.

Policies DM1 to DM10 are intended to manage the operational impacts associated with all types of minerals development. To facilitate the determination of a minerals planning application, Dorset County Council has produced a listing of all the supplementary information required to be submitted⁽²⁷⁾.

Sustainable Minerals Development

16.2 Section 39 of the Planning and Compulsory Purchase Act 2004 requires the planning process, including minerals planning, to make a contribution to the achievement of sustainable development. National policy establishes strong support for and a presumption in favour of sustainable development. For minerals, this recognises the need to supply minerals and the important contribution they make to daily life. It recognises that minerals development can have significant adverse impacts on the local environment and local communities. In seeking to achieve sustainable development for minerals, the Mineral Planning Authority encourages applicants to take a holistic view of any proposed minerals development, reconciling the need for minerals and economic returns with potential impacts on local communities and the wider environment, and identifying mitigation strategies to address adverse impacts.

16.3 Policy DM1 sets out a series of key criteria against which all applications for minerals developments will be assessed by the Mineral Planning Authority in order to gauge the extent to which the proposal delivers sustainable development. The policy requires mitigation of unacceptable impacts, to make an otherwise unacceptable proposal acceptable. Where mitigation proves impossible, the implication is that the impacts make that development unacceptable.

16.4 Quality of agricultural land must be considered alongside other sustainability considerations. Where significant development of agricultural land is unavoidable, poorer quality agricultural land should be used in preference to 'best and most versatile agricultural (BMV) land', except where this would conflict with other sustainability considerations.

27 See: <http://www.dorsetforyou.com/345909>

Policy DM1 - Key Criteria for Sustainable Minerals Development

Proposals for minerals development should provide the maximum possible social, economic and environmental benefits whilst any adverse impacts should be avoided or mitigated to an acceptable level.

In order to achieve this, all proposals for minerals development must demonstrate that all the following criteria have been addressed satisfactorily:

- a. Minimisation of impacts which could increase the effects of climate change;
- b. Protection and, where appropriate, enhancement of local amenity;
- c. Protection and, where appropriate, enhancement of biodiversity and geodiversity, including nationally and internationally designated sites;
- d. Protection and, where appropriate, enhancement of heritage assets;
- e. Protection and, where appropriate, enhancement of landscape, including the avoidance and/or mitigation of visual and landscape impacts through sensitive design, screening or other means;
- f. Preparation of a scheme of working that that will keep production of mineral waste to a minimum, while ensuring availability of an adequate amount of material for timely restoration of workings;
- g. Protection of soil resources throughout the life of the development and, where significant development of agricultural land is demonstrated to be necessary and there is a choice of location, giving preference to the development of poorer quality land over higher quality or best and most versatile land;
- h. Efficient use of water resources on the site;
- i. Avoidance or mitigation of, or compensation for, adverse impacts on the water environment and flood risk;
- j. Avoidance of cumulative impacts resulting from minerals or other development, whether current or proposed;
- k. Use of sustainable transport; and
- l. Restoration, aftercare and after-use proposals and compliance with the strategy for restoration.

Sustainability Appraisal of Policy

Overall this policy addresses most of the sustainability objectives as its aim is to ensure that minerals development is sustainable. Those not specifically addressed are covered elsewhere in this chapter.

Managing the impacts of minerals development on amenity

16.5 Applicants are encouraged to adopt an integrated mitigation strategy at an early stage to manage the adverse impacts that are likely to arise as a result of minerals development. The mitigation strategy should bring together the policy requirements of the Minerals Core Strategy. It should also address any other policy requirements, including local, national or international policy, that may be relevant to the proposed development. It should ensure that the proposed scheme of working, including extraction, processing, transportation and the impacts of any ancillary structures, has been fully assessed and appropriate steps taken to minimise impacts.

16.6 Minerals development can have significant effects on amenity and the environment, and must be carefully managed. Proposals should first seek to avoid adverse environmental impacts and then, if this is not possible, should identify options for mitigation of the impacts. Possible impacts may include noise, vibration and emissions to air from quarry traffic and processing plant, debris on the roads, subsidence of the land, the raising of dust during dry periods, light pollution and visual intrusion. Minerals developments often generate high volumes of HGV traffic and, as well as being linked to many of the impacts listed above, air emissions from quarry traffic are identified as contributors to climate change and can adversely affect people's health. These impacts must be kept to a minimum through the use of appropriate mitigation measures such as:

- a. The incorporation of an appropriate buffer between residents and mineral workings;
- b. Landscaping to create temporary screening bunds;
- c. Using natural vegetation for screening purposes (planted in advance of the development where possible);
- d. Restricting the hours of operation;
- e. Water bowsers to suppress dust, and wheel washers to reduce the road debris caused by lorries;
- f. The phasing of operations to reduce the impact on local residents;
- g. The choice of route, location and suitability of access arrangements for vehicles entering and leaving the site;
- h. The use of shields, louvres and baffles, together with restrictions on operational hours, to prevent 'light spill', 'light trespass' and 'sky glow' in sensitive areas.

16.7 Policy DM2 seeks to ensure that the potential adverse impacts associated with minerals development are managed in order to protect amenity and the environment. National policy requires that the environmental effects of minerals extraction should, as far as possible, be controlled, mitigated or removed at source, so as to reduce potential adverse impacts to an acceptable level. The term 'life cycle of the proposed development' as used in the policy refers to the period from the beginning of the development until the end of the after-care period.

16.8 Environmental Impact Assessment (EIA) Regulations require an assessment of the likely significant environmental effects of some development. EIA is undertaken by developers as a means of drawing together, in a systematic way, an assessment of the likely significant environmental effects of certain types of development proposal. The EIA process, including

the method for determining whether an EIA is required for a particular development proposal, is set out in legislation and detailed national guidance ⁽²⁸⁾. The result of an EIA is presented in an Environmental Statement and if required should be submitted with a planning application.

16.9 An EIA is mandatory for new minerals extraction sites, extensions to existing extraction sites, or reviews of permissions of existing extraction sites greater than 25 hectares. Below this threshold an EIA will be required if, without any mitigation measures, the development would be likely to have significant environmental effects. **Policy DM2** complements the EIA provisions by requiring assessments for minerals development that fall below the EIA threshold, where there is likely to be adverse impacts associated with noise, dust, air emissions, lighting, vibration and land instability due to quarrying or mining.

16.10 Some impacts, including land instability, can be transferred considerable distances from a mineral operation and may occur both above and below ground level. Traffic impacts associated with minerals development can also be felt at some distance from their source. Although it is not always possible to control all such impacts, Policy DM2 will, where possible, be used to address issues such as congestion which can be directly attributed to mineral development. Policy DM8 addresses other aspects of traffic impacts.

16.11 Site operators will be expected to implement mitigation measures to reduce the impact of lorries and other vehicles travelling to or from a site on the road network and wider environment. Such measures include using water bowsers to suppress dust during spells of dry weather; wheel and chassis washing to prevent debris from being deposited on the road network; sheeting of loads and following agreed routes; and the location and design of access arrangements for vehicles entering and leaving a site. The use of internal haul routes within quarries can also reduce transportation impacts and will be encouraged where appropriate.

Policy DM2 - Managing Impacts on Amenity

Proposals for minerals development in Bournemouth, Dorset and Poole will only be permitted where the proposals demonstrate that, for the life-cycle of the proposed development, any potential adverse impacts on neighbouring land and property associated with the following considerations are avoided and/or adequately mitigated to an acceptable level:

- a. Noise levels;
- b. Dust levels;
- c. Air emissions;
- d. Lighting;
- e. Visual and landscape impacts,
- f. Vibration levels,
- g. Site related traffic impacts; and
- h. Stability of the land at and around the site, both above and below ground level.

Proposals for mineral development should be accompanied, where appropriate, by an assessment of the above impacts of the proposal. Where a need for mitigation is identified by the assessment and / or through consultation with key stakeholders, mitigation measures should be defined and submitted as part of the development proposal.

The assessment, together with any required mitigation, must consider impacts over the entire life-cycle of the proposed development. The fact that impacts of mineral extraction, including those resulting from HGVs and other traffic servicing the proposed development, may extend for considerable distances beyond the boundaries of the proposed development site must be taken into consideration and appropriately mitigated.

Sustainability Appraisal of Policy

This policy is focused on reducing the immediate impacts of a site's development on amenity. It has a positive impact in terms of protecting quality of life and health of local populations.

Managing Impacts on Surface and Ground Water

16.12 Minerals development, particularly sand and gravel and ball clay extraction, will at some point affect surface and ground water resources. There will be potential for adverse impacts to water quality and water levels, including aquifers, both within and beyond the boundaries of a site. This could occur through activities such as abstraction of water for mineral washing and processing, removal of water from areas where minerals will be worked below the water table, or the storage of fuels and other chemicals necessary for the development. These aspects of minerals development must be assessed and properly

managed. One of the effects of climate change could be more extreme weather events, including an increase in the risk of flooding. Managing the impact of minerals development on the water environment will take into account increased flood risk.

16.13 National policy seeks to ensure that flood risk is taken into account at all stages in the planning process to avoid inappropriate development in areas at risk of flooding, and to direct development away from areas at highest risk. A site-specific flood risk assessment is required for proposals of 1 hectare or greater in Flood Zone 1 (see Glossary) and all proposals within areas at risk of flooding as identified by the Bournemouth, Dorset and Poole Level 1 Strategic Flood Risk Assessment (SFRA)⁽²⁹⁾. This document also includes guidance on carrying out Flood Risk Assessment. Further guidance on flooding issues is also available from the National Planning Policy Framework (paragraphs 99-104) and from the separate 'Technical Guidance to the National Planning Policy Framework'⁽³⁰⁾.

16.14 Ancillary buildings and hard-standing associated with minerals development can also lead to increases in surface run-off and therefore could contribute to flooding. Sustainable Drainage Systems (SUDS) that are capable of storing and controlling the discharge of water associated with these areas should also be incorporated into the design of proposals. Information on SUDS can be found in the Bournemouth, Dorset and Poole 2010 SFRA.

16.15 The Environment Agency is the main body responsible for safeguarding the water environment. Its concerns include ground and surface water protection, pollution control, flood defence, land drainage, recreation, fisheries and conservation. Pre-application discussions with the Environment Agency, the Mineral Planning Authority and the relevant sewerage undertakers / infrastructure providers on matters likely to affect surface and groundwater resources are strongly encouraged. Applicants will be required to assess the potential impacts upon the water environment at both extraction and restoration phases, undertaking a hydrological/hydrogeological investigation where necessary.

16.16 Rivers, open watercourses, wetlands and ponds together with the land alongside these features have high ecological value and will be protected. Aquatic ecosystems are communities of organisms that are dependent on each other and on their environment. Development should aim to prevent deterioration and enhance the status of these aquatic ecosystems. The two main types of aquatic ecosystems are marine ecosystems and freshwater ecosystems and associated wetlands. There should be no loss of open watercourse or wetland areas as a result of proposed developments where these features are present on a site. A continuous river corridor should be maintained to provide for the movement of wildlife.

16.17 Development in Flood Zone 3a or 3b is likely to be unacceptable if it involves the raising of existing ground levels, or impedes flood flows and measures for flood compensation storage cannot be implemented⁽³¹⁾. In cases where the development could not be adequately controlled and would present an unacceptable risk to the water environment, or would exacerbate flood risk, planning permission should not be granted.

29 Halcrow, December 2010 - see Submission Document 11.

30 Both March 2012; Department for Communities and Local Government

31 Submission Document 11: Bournemouth, Dorset and Poole Level 1 SFRA (Halcrow, December 2010).

16.18 The Water Framework Directive (WFD)⁽³²⁾ looks at the ecological health of surface water bodies. Minerals development proposals should be assessed and any adverse impacts on ground water or water bodies identified under the South West River Basin Management Plan⁽³³⁾ should be capable of mitigation. Successful implementation of the Water Framework Directive will help to protect all elements of the water cycle and enhance the quality of ground waters, rivers, lakes, estuaries and seas. Where sites may cause ground water impacts regard should also be had to the Environment Agency's Groundwater Protection Policy and Practice document (GP3)⁽³⁴⁾. The document describes how ground water should be managed now and for the future to prevent or mitigate impacts.

Policy DM3 - Managing the Impact on Surface Water and Ground Water Resources

Proposals for minerals development which would have an impact on water resources, including aquifers, will only be permitted where it can be demonstrated that the local water environment would be protected and where appropriate enhanced. Provision should be made to ensure the protection and maintenance of the:

- a. quality;
- b. direction and rate of flow; and
- c. volume of flow of ground water, water courses and all other surface water.

Rivers, open watercourses, wetlands and ponds which have a significant ecological value, together with the land alongside these features, should be protected. Development should aim to prevent deterioration and where appropriate enhance the quality of aquatic ecosystems and associated wetlands.

Flood Risk Assessments (FRA) will be required for minerals development proposals in areas at risk of flooding or likely to contribute to flooding elsewhere, relative to the nature and scale of the development, and must take into account cumulative effects with other existing or proposed development. Where a risk of flooding is identified through FRA, proposals must include measures to ensure the avoidance and / or mitigation of that risk.

Development proposals will also be required to include provisions for the efficient use of water resources on site and the use of Sustainable Drainage Systems (SUDS).

32 Directive 2000/60/EC of the European Parliament and of the Council establishing a framework for the Community action in the field of water policy - October 2000

33 Environment Agency - December 2009

34 Underground, Under Threat - Groundwater protection: policy and practice - Part 3: tools. Environment Agency.

Sustainability Appraisal of Policy

This policy is focused on managing impacts on water resources and addressing flood risk. It has a positive impact in protecting and enhancing the water environment, in particular aquatic ecosystems. It complements the other development management policies in this chapter.

Landscape and the Countryside

16.19 Minerals development, followed by appropriate restoration, has the potential to bring benefits and enhancements to landscapes. Good design, including landscape design which respects local distinctiveness, is at the heart of the planning system. The quality of the landscape today, its maintenance and where appropriate enhancement, is a key consideration for minerals planning. It is important that attention should be focused on more than just the 'high quality' landscapes such as those found in designated areas and should include the diversity of surroundings.

16.20 Government policy requires that major mineral developments should avoid nationally designated landscape areas – including Areas of Outstanding Natural Beauty (AONB), National Parks and World Heritage Sites – as far as is practical. Major proposals for minerals development within or adjacent to a landscape of national importance should be subject to the most rigorous examination. Any built structures and ancillary buildings associated with minerals development should be sited and designed to minimise their visual impact, through the appropriate use of scale and form.

16.21 For good reasons some of the minerals found in Dorset currently are and will continue to be extracted within designated areas. Ball clay has a high economic value and is recognised as nationally and internationally important. Chapter 8 accepts that significant weight must be given to continued extraction within the AONB if supply is to be maintained. The Purbeck Stone resource is entirely contained within the AONB. Its extraction contributes to the local economy and to Dorset's unique sense of place. The strategy contained in Chapter 9 aims to maintain an adequate and steady supply. Major extraction of other more commonly found minerals, such as aggregates, are unlikely to be considered acceptable within these nationally designated landscapes. **Policy DM4** ensures that provisions are in place to protect and enhance designated landscapes and their setting. Guidance in paragraphs 115 and 116 of the National Planning Policy Framework, along with relevant development plan policies, will be taken into account in the determination of applications.

16.22 Other land uses such as public open space, Public Rights of Way and outdoor recreational facilities all contribute to the landscape setting of an area and are an important consideration for minerals development proposals. Minerals development should not result in the net loss or degradation of such features.

16.23 Minerals development is likely to have a significant impact on its surrounding landscape character and planning applications for such development will need to be accompanied by an assessment which should consider the landscape and visual effects of

the proposals, appropriate to the nature and scale of the development. It should also include, where appropriate, reference to tranquillity and cumulative impacts of other developments and historic human uses and influences. Seeking advice at the pre-application stage on the scope and details of what landscape and visual assessments should consider and when they should be undertaken is strongly advised.

16.24 The Dorset Landscape Character Assessment (LCA) ⁽³⁵⁾ is a detailed assessment of the character of the county, and will also form an important part of any assessment. It sits within the national framework of Countryside Character Areas and Natural Areas, identifying variations in landscape character at a sub-regional level. It helps in understanding how the landscape has evolved and contributes to making informed decisions on managing change in the future. In addition, a Landscape Change Strategy for Dorset is being developed, to help manage change in the county whilst minimising impacts and wherever possible, seeking to enhance landscape character.

35 See [dorsetforyou.com](http://www.dorsetforyou.com) (<http://www.dorsetforyou.com/393007>).

Policy DM4 - Protection and Enhancement of Landscape Character and the Countryside

Minerals development will only be permitted when the proposals include provisions to protect and/or enhance the quality, character and amenity value of the countryside and landscape.

Development will be expected to ensure the protection of the following designations of national importance, together with their settings, in accordance with the relevant statutory requirements:

- a. The New Forest National Park;
- b. The Cranborne Chase and West Wiltshire Downs Area of Outstanding Natural Beauty; and
- c. The Dorset Area of Outstanding Natural Beauty.

The importance of non-statutory designations, such as the West Dorset Heritage Coast and the Purbeck Heritage Coast, must also be taken into consideration.

Each proposal for minerals development should be accompanied by an objective assessment of any impacts upon the local landscape character and its setting (including historic landscape character) having regard to the status and significance of any heritage assets affected.

The assessment should be informed by the Dorset Landscape Character Assessment as a minimum. Where the proposed development is situated within or in proximity to an Area of Outstanding Natural Beauty or the New Forest National Park, the relevant Management Plan and Landscape Character Assessment must also be taken into consideration.

Development which affects the landscape will only be permitted if it can be demonstrated that any adverse impacts can be:

- i. avoided; or
- ii. where an adverse impact cannot be avoided, the impact will be adequately mitigated; or
- iii. where adverse impacts cannot be avoided or adequately mitigated, compensatory environmental enhancements will be made to offset the residual landscape and visual impacts.

Sustainability Appraisal of Policy

This policy is focused on reducing and mitigating impacts on the landscape and countryside. It therefore has a positive impact in terms of enhancing landscape character and protecting designations. It complements the other development management policies in this chapter.

Biodiversity and Geological Conservation

16.25 The Plan area comprises a rich source of biodiversity and geodiversity, with 22 internationally protected nature conservation sites (SAC, SPA and Ramsar), the Dorset and East Devon Coast World Heritage Site, 141 Sites of Special Scientific Interest (SSSIs), some 63 Regionally Important Geological and Geomorphological Sites and around 9 National Nature Reserves. Unless effectively managed, minerals development could potentially result in adverse impacts on features of biodiversity and geological interest. The Mineral Planning Authority considers features of biodiversity and geological interest to comprise:

Sites and species of European and international importance:

- a. Special Areas of Conservation (SACs)
- b. Special Protection Areas (SPAs)
- c. Ramsar sites
- d. European Protected Species
- e. Dorset and East Devon Coast World Heritage Site

Sites and species of national importance:

- f. Sites of Special Scientific Interest
- g. Habitats and Species of Principal Importance ⁽³⁶⁾
- h. National Nature Reserves

Sites and species of regional and local importance:

- i. Regionally Important Geological and Geomorphological Sites
- j. Dorset Biodiversity Strategy habitats and species
- k. Sites of Nature Conservation Interest (SNCI)
- l. Local Nature Reserves
- m. Ancient Woodland and Veteran Trees

36 This term is derived from the Natural Environment and Rural Communities (NERC) Act. Section 41 (S41) of the Act requires the Secretary of State to publish a list of habitats and living organisms which are of principal importance for the conservation of biodiversity in England. The list has been drawn up in consultation with Natural England, as required by the Act. The S41 list is used to guide decision-makers such as public bodies, including local authorities, in implementing their duty under section 40 of the Natural Environment and Rural Communities Act 2006, to have regard to the conservation of biodiversity in England, when carrying out their normal functions.

together with any area / habitat that could be considered to be essential to connect / support habitats or species such as those listed above.

16.26 A number of areas of biodiversity interest in Bournemouth, Dorset and Poole already have significant European and national protection. Any proposal that could potentially impact upon a site protected under the Conservation Regulations 2010 is legally required to be subject to assessment under those Regulations. The key factors that could affect whether the development of a minerals site would be likely to significantly affect a European site are set out in the Bournemouth, Dorset & Poole Minerals Core Strategy Conservation Regulations Assessment (2012) and included below:

- a. Hydrology - in some cases water regimes are critical to the maintenance of wetland interest features of the European heathland sites; chalk rivers are also significantly affected by hydrological regimes and watercourses provide essential corridors for wildlife dispersal.
- b. Displacement of recreation - the use of land for mineral extraction or processing may result in the public using alternative areas, such as a designated site, for recreation (including for dog walking), which would generally threaten its integrity;
- c. Proximity - in general the closer a mineral site to a European site, the more likely there will be significant effects;
- d. Species - characteristic species of European sites are often found beyond site boundaries; and
- e. Management - where the current land-use contributes or could contribute to the management of a nearby European or international site.

16.27 European Protected Species, found outside of a SAC/SPA, are the responsibility of the competent authority (i.e. in minerals planning matters the Minerals Planning Authority) and developers will where appropriate be required to survey for these species. The exception to this is where European Protected Species are a feature of European designated sites (SAC or SPA) when Natural England must decide whether the proposal can be allowed to happen. The Countryside and Rights of Way Act 2000, together with the National Planning Policy Framework and guidance in Circular 06/2005, set out the national policy position on protecting and enhancing biodiversity and geodiversity. The Mineral Planning Authority is committed to ensuring that habitats and species both within and outside designated sites are protected.

16.28 Additionally, nationally designated SSSIs are also afforded statutory protection. Circular 06/2005 requires the Mineral Planning Authority to take reasonable steps to further the conservation and enhancement of the features for which sites are of special interest. Developments that would result in the loss or deterioration of non-statutory ancient woodland should also not be permitted. The aims to protect Dorset's geodiversity are set out in the Dorset Local Geodiversity Action Plan (LGAP) and are also incorporated into the Dorset AONB Management Plan. This refers to the use of local building stone.

16.29 To ensure that sufficient information is provided for the Mineral Planning Authority to properly determine a planning application, **Policy DM5** requires developers to undertake an assessment of the potential effects of their development proposals on areas of biodiversity and/or geological interest, including those of local importance.

16.30 Some areas of land currently support large enough populations of birds to meet the criteria for that area of land to be designated as SPA, although the land in question has not as yet been brought forward for consideration for designation. A decision made by the Secretary of State in 2011⁽³⁷⁾ will have the effect of encouraging decision-makers to carefully examine the possible effects of a development proposal on such land.

16.31 Assessment should identify whether a proposal is likely to result in a significant adverse impact (i.e. resulting in unacceptable loss or harm of species or habitat), and set out clearly the options proposed for avoiding, mitigating or compensating for the adverse impact. The assessment should also include consideration of the extent to which existing habitats on the proposed site have the potential for restoration to high quality habitats which would contribute to achieving the objectives of the Dorset Biodiversity Strategy and whether minerals development would enhance or detract from this restoration potential.

16.32 Not all proposals for minerals development are likely to impact upon biodiversity or geodiversity. Some minor applications for ancillary developments on existing sites, for example, may not present any significant ecological issues and therefore would not necessarily need to be supported with a detailed assessment. However, other applications could relate to small scale development in isolated areas where there is a possibility of an adverse impact upon flora and fauna (noise, disturbance through frequent access to site, etc). It is important that developers engage in early and effective pre-application discussions with the Mineral Planning Authority to establish the potential issues associated with a proposed development.

16.33 The Mineral Planning Authority will be able to provide advice on whether a particular proposal will need to be accompanied by an assessment of the impacts on biodiversity and the level of detail an assessment will need to cover. Where an assessment is required it must incorporate an appropriate ecological survey. As Government policy promotes the need to ensure that biodiversity can adapt to the impacts of climate change, this should be taken into account in any assessment.

16.34 Based on the outcomes of the biodiversity/geodiversity assessment, a sequential approach to managing the predicted impacts of minerals development is required. In the first instance applicants should make every effort to ensure that significant harm to protected species and features is **avoided**, including ensuring the development cannot reasonably be located on any alternative sites that would result in less or no harm. In the absence of alternatives, **mitigation** measures should be designed and implemented in order to reduce the impact to the point where it no longer has significant effects.

16.35 Finally, as a last resort, **compensation** in the form of a legal agreement should be sought where significant harm cannot be avoided or adequately mitigated against. Compensatory measures should result in at least 'like for like' habitat creation either within or in proximity to the proposed development. If significant harm cannot be avoided, mitigated against, or adequately compensated for, planning permission should be refused.

37 See: Town and Country Planning Act 1990 – Section 77. Application by VEOLIA ES Nottinghamshire Ltd. Land at former Rufford Colliery, Rainworth, Nottinghamshire NG21 0ET. Application Ref: 3/07/01793/CMW

16.36 Where a proposal identifies a need for mitigation and/or compensation, full details of the mitigation and/or compensation measures to be implemented should be incorporated into the design of the proposal. Applicants should make provisions for the need for long term aftercare and management of the site. It is therefore imperative that the ecology of the site has been properly assessed at an early stage, so that mitigation or compensation measures can be presented as part of the planning application.

16.37 Minerals development, followed by appropriate restoration, has the potential to bring positive biodiversity benefits to areas which may not be species rich, or may in some way be degraded. Benefits to a wider area may also be realised through restoration of previously lost habitat linkages. This is an important part of the restoration on minerals sites and is referred to in Chapter 15 of the Minerals Core Strategy.

Policy DM5 - Biodiversity and geological interest

Proposals for minerals development must not adversely affect the integrity of European or Ramsar or other internationally designated sites either alone or in combination with other plans and projects.

Proposals for minerals development which do not adversely affect the integrity of European or Ramsar sites or other internationally designated sites will only be permitted where adverse impacts on biodiversity and/or geodiversity will be:

- i. Avoided; or
- ii. Where an adverse impact cannot be avoided, the impact will be adequately mitigated; or
- iii. Where adverse impacts cannot be avoided or adequately mitigated, compensation will result in the maintenance or enhancement of biodiversity / geodiversity.

Where possible, proposals should seek to enhance biodiversity and geological interest.

Proposals for minerals development must be accompanied by an objective assessment of the potential effects of the development on features of biodiversity and/or geological interest, taking into account cumulative impacts with other development and the potential impacts of climate change.

In addition, the assessment must have particular regard to the need to protect, maintain and / or enhance sites and species of international and national importance, in accordance with the relevant statutory requirements. It should also consider the potential for existing habitats on the site to be restored to higher quality habitats, during and after mineral working.

The assessment must also consider carefully the potential to maintain and / or enhance features of local and regional importance and the proposals should seek to achieve this wherever possible and consistent with viable development.

Sustainability Appraisal of Policy

This policy is focused on protecting and enhancing biodiversity and geodiversity. It complements the other development management policies in this chapter.

The Dorset and East Devon Coast World Heritage Site

16.38 In 2001, the Dorset and East Devon Coast was recognised as a World Heritage Site for the Outstanding Universal Value of the coast's geology and geomorphology. The 95 mile stretch of cliffs is the only place in the world where over 185 million years of the Earth's history, including the entire Triassic, Jurassic and Cretaceous geological periods, can be seen along a near continuous stretch of coastline, with a number of internationally important fossil localities along its length. The Dorset and East Devon Coast has an outstanding combination of internationally renowned geological and geomorphological features, landforms and processes, and is renowned for its contribution to earth science investigations for over 300 years, helping to foster major contributions to many aspects of geology, palaeontology and geomorphology. This coast is considered by geologists and geomorphologists to be one of the most significant teaching and research sites in the world.

16.39 Emerging Government policy (Draft NPPF) requires the Mineral Planning Authority to ensure, as far as is practical, that sufficient levels of permitted mineral reserves are available from outside World Heritage sites. The World Heritage Site Management Plan⁽³⁸⁾ encourages the establishment of mineral planning policies which afford the highest possible level of protection to the Site and its setting from damaging minerals development. Significant negative impacts on the Outstanding Universal Value of the Dorset and East Devon Coast World Heritage Site must be avoided.

16.40 The area of the Site is already covered by a number of Policies in the Minerals Core Strategy. The geological importance of the Site is recognised in Policy DM5. On Portland, Policy PD1 seeks to encourage mining as an alternative to surface quarrying of Portland Stone while Policy PD4 specifically refers to the Site in the context of the Review of Old Mineral Permissions (ROMP). **Policy DM6** more generally addresses the protection of the Site, its setting and its Outstanding Universal Value.

38 (Dorset and East Devon Coast World Heritage Site Management Plan 2009-2014)

Policy DM6 - Dorset and East Devon Coast World Heritage Site

Mineral extraction will not be permitted within the boundaries of the World Heritage Site.

Proposals for minerals development outside of the boundary of the World Heritage Site but which could affect the Site must be able to demonstrate that there will not be any impacts on the Outstanding Universal Value or integrity of the Site.

In the case of proposals which could affect the Site's setting, permission will only be granted if any adverse impacts can be mitigated to the satisfaction of the Mineral Planning Authority and on condition that such impacts would not affect the Site's Outstanding Universal Value or integrity.

Sustainability Appraisal of Policy

This policy is focused on protecting the World Heritage Site given its international importance. It complements the other development management policies in this chapter.

The Historic Environment

16.41 Bournemouth, Dorset and Poole have a diverse historic environment comprising buildings and structures of architectural and historical interest, archaeological remains, areas of historic landscape including heathland, parkland and ancient woodland, conservation areas, registered parks and gardens, the historic character of the wider landscape/ built environment and unrecorded archaeology. In 2010 there were some 1,043 scheduled monuments; 9,931 listed buildings; 239 conservation areas; and 37 historic parks and gardens in the plan area.

16.42 Some features are of national importance, recognised or designated in some way, while others may not be designated but following assessment may be shown to be of national importance. Other elements of the historic environment may be of less than national significance and in some cases without any statutory protection. Together they make an important contribution to creating a sense of place, local identity and distinctiveness.

16.43 The principal objective of **Policy DM7** is to ensure that Bournemouth, Dorset and Poole's historic environment is afforded the appropriate level of conservation and enhancement in conformity with national policy. As part of the process of preparing planning applications for new development, assessment (including archaeological and historic landscape assessment where appropriate) should be used by developers to inform the preparation of a mitigation strategy for proposed minerals development.

16.44 Since minerals can only be worked where they exist, their development can lead to a conflict between the provision of essential mineral resources and the protection of the evidence of Bournemouth, Dorset and Poole's past for the benefit of future generations. The

Minerals Core Strategy has an important role to play in both protection of the historic environment and planning for the provision of minerals to restore, repair and protect the historic environment. The use of local stone for the repair/restoration of historic buildings and in conservation areas is actively encouraged.

16.45 Inappropriately designed and managed minerals extraction can result in disturbance to and/or loss of the historic environment. National policy assigns considerable importance and weight to the conservation of designated heritage assets. However, features and aspects of the historic environment do not have to be formally designated to be of national importance. Appropriate consideration is to be given to those elements of the historic environment not designated or of national importance, depending on the result of assessment.

16.46 In order to properly assess the potential impacts upon the historic environment that may result from a proposed development, the Mineral Planning Authority will require developers submitting proposals for new minerals development to undertake an appropriate assessment and/or evaluation which will include:

- a. consideration of whether the area proposed for development has the potential to contain previously unknown heritage assets;
- b. consultation of the relevant Historic Environment Record (including the Record of other authorities in areas close to the county boundary);
- c. provision of a description of the significance of heritage assets (both known and previously unknown) and their settings that may be affected by the proposed development and the contribution of their setting to that significance;
- d. carrying out field evaluation where desk-based assessment is insufficient to properly assess interests, or indicates that field evaluation is necessary;
- e. consideration of potential adverse impacts on the historic landscape and the settings of the heritage assets.

16.47 Developers will be expected to consult the Mineral Planning Authority's historic environment adviser regarding the scope of the assessment. It is expected that Historic Landscape Characterisation will form a part of the assessment process⁽³⁹⁾. The Confederation of British Industry have produced a code of practice for mineral developers to apply when planning proposed mineral developments⁽⁴⁰⁾. In addition, the Minerals and Historic Environment Forum (a body set up jointly with English Heritage, other mineral sector associations, leading organisations involved with the historic environment and mineral planning authorities) have produced a practice guide setting out clear and practical advice on the archaeological evaluation of mineral development sites⁽⁴¹⁾.

39 Historic Landscape Characterisation is an established technique which can assist in producing an area-based, generalised understanding of how places and landscapes have evolved and how their historic character might be appreciated, protected and where appropriate enhanced. Dorset County Council is currently finalising its own Historic Landscape Characterisation study

40 Confederation of British Industry – Archaeological Investigations Code of Practice for Mineral Operators 1991

41 Mineral Extraction And Archaeology: A Practice Guide (English Heritage June 2008) (<http://www.cbi.org.uk/pdf/arch-practice-guide.pdf>); see also Minerals Extraction and the Historic Environment (English Heritage March 2008) (<http://www.english-heritage.org.uk/publications/mineral-extraction-and-historic-environment/>)

16.48 The results of the assessment should be used by developers to prepare a mitigation strategy for the proposed minerals development. Where initial investigations indicate that heritage assets of national importance are likely to be disturbed or affected, developers will be expected to agree to a scheme of preservation in situ or further mitigation measures to take place prior to or concurrently with the minerals development. Where investigations indicate that heritage assets of other than national importance are likely to be disturbed or affected, developers will be expected to agree to a scheme of preservation either in situ or by record or further mitigation measures to take place prior to or concurrently with the minerals development.

16.49 There should be a presumption in favour of the conservation of designated heritage assets and the more significant the designated heritage asset, the greater the presumption in favour of its conservation should be. Once lost, heritage assets cannot be replaced and their loss has a cultural, environmental, economic and social impact. Significance can be harmed or lost through alteration or destruction of the heritage asset or development within its setting. Loss affecting any designated heritage asset should require clear and convincing justification. Substantial harm to or loss of a grade II listed building, park or garden should be exceptional. Substantial harm to or loss of designated heritage assets of the highest significance, including scheduled monuments, grade I and II* listed buildings and grade I and II* registered parks and gardens and the World Heritage Site should be wholly exceptional.

Policy DM7 - The Historic Environment

Proposals for minerals development in Bournemouth, Dorset and Poole will only be permitted where it can be demonstrated through an authoritative process of assessment and evaluation that heritage assets and their settings will be conserved and where appropriate enhanced. Adverse impacts should be avoided or mitigated to an acceptable level.

Where the presence of historic assets of national significance is proven, either through designation or a process of assessment, their preservation in situ will be required.

Any other historic assets should be preserved in situ if possible, or otherwise by record.

Sustainability Appraisal of Policy

This policy is focused on protecting the historic environment and so directly addresses this sustainability objective. It complements the other development management policies in this chapter.

Sustainable Transport

16.50 Mineral workings are often generators of Heavy Goods Vehicle (HGV) traffic, which can lead to adverse environmental impacts such as noise, air pollution, vibration and dust. They can be a road safety hazard for other vehicles, pedestrians and cyclists. These effects are intensified in areas designated for their environmental importance. In addition, lorries used to transport minerals produce carbon emissions that contribute to global warming. The sustainable transportation of minerals between sites for processing or to their end-use destination is therefore an important consideration for managing the impacts of minerals development.

16.51 Operators should consider the most appropriate ways in which to minimise the impacts of HGV traffic from mineral workings, such as through the reduction of transportation distances and the use of rail and water to transport minerals. It is acknowledged that the opportunities for rail and water transportation of minerals may be limited.

16.52 For short distances, such as transport within a quarry or between a quarry and nearby processing plant, the use of short-haul conveyors should be considered. Light weight, movable conveyor systems offer advantages over vehicular transport and can be cost effective on large sites. However if they require more substantial, fixed structures this can add to visual intrusion, noise and light impacts. Conveyors can also raise wayleave issues as well as safety concerns when crossing public roads and footpaths. Conveyors and other non-vehicular transport methods, although offering environmental benefits, can be more costly than road transport and the economic viability of their use will be taken into consideration by the Mineral Planning Authority. As far as possible numbers of mineral movements will be minimised through means such as bulking up of loads and ensuring HGVs enter and exit sites with a full load.

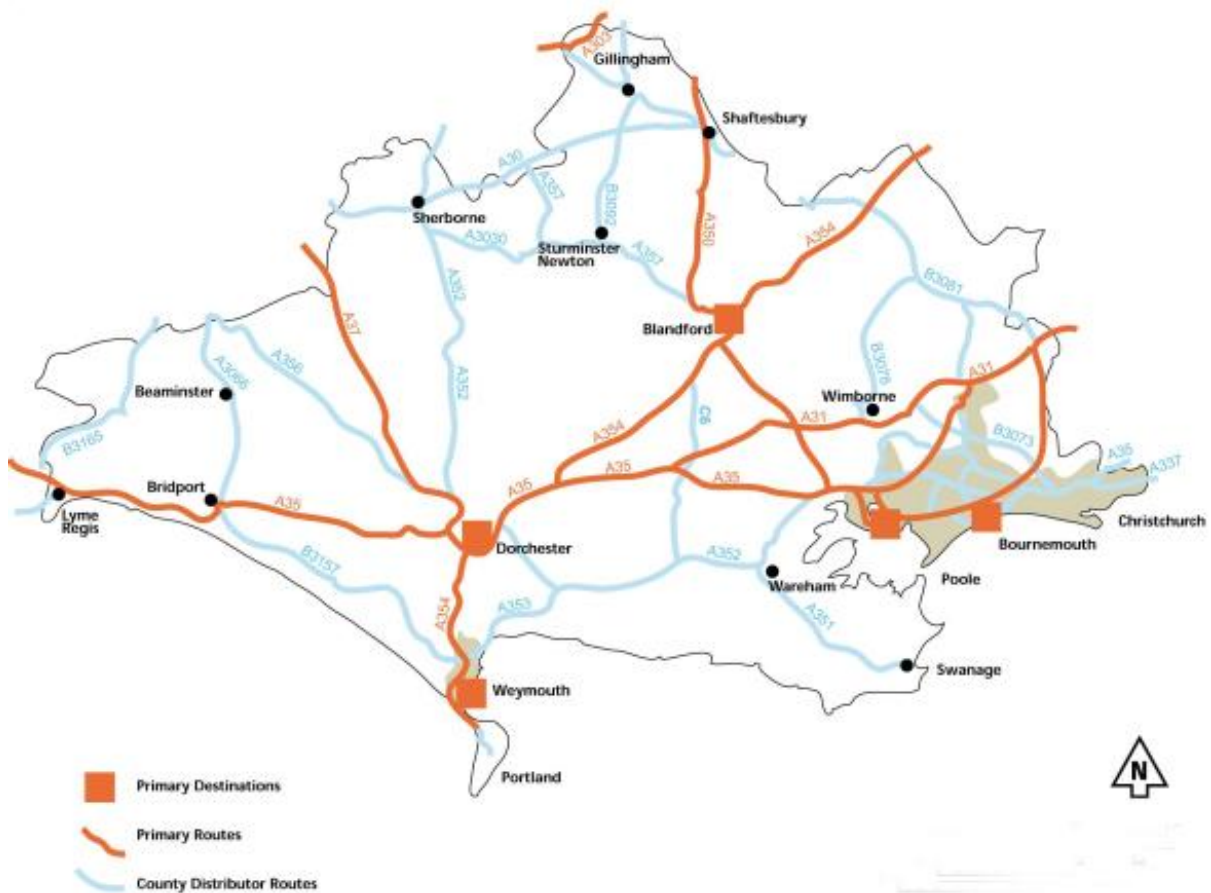
16.53 There may be cases where importation of minerals by road from outside the plan area is either necessary (i.e. the mineral does not exist within the plan area) or appropriate (i.e. the distance to a quarry within the plan area is greater than the distance to a quarry outside the area). However, in general terms importation of mineral by road from outside the plan area is discouraged if it is likely that this will lead to unnecessary generation of CO₂ and/or transport impacts.

16.54 There is currently no defined Strategic Freight Network in Dorset to indicate the most appropriate routes for HGVs to use. In the absence of this, HGVs are encouraged to use the strategic highway network as originally defined in the Bournemouth, Dorset and Poole Structure Plan and illustrated below, comprising trunk roads or other primary routes, together with county distributor roads, which are more likely satisfactorily to accommodate such traffic. This network includes two categories of road: primary routes, which are defined by government, and county distributor routes which link towns and major centres of activity to each other and to the primary network. These strategically important routes cater for longer distance journeys and lorry movements.

16.55 Encouraging traffic to use this higher quality network will reduce environmental and safety problems on less suitable roads. Sites will not be encouraged where access is required through residential areas or other sensitive land uses. The Highways Agency does not

normally permit new accesses to be established onto the strategic network, and as far as possible developments should seek to utilise existing accesses onto the strategic network. Freight Constraints mapping for the county is currently under preparation, and will highlight the locations where there are constraints for HGVs. It will be available online at the Dorset Explorer website⁽⁴²⁾.

Figure 26 Strategic Road Network



42 See: <http://explorer.geowessex.com/>

16.56 It is recognised that there are a number of instances where lorry traffic serving quarries is required to use local roads for some distance before accessing the strategic highway network. This is particularly true of Purbeck Stone quarries and other building stone quarries in the north or west of the county. Such sites are generally small in scale and produce few HGV movements. Assessment of all new proposals will include consideration of proximity and linkages to the strategic highway network.

16.57 A comprehensive Transport Assessment (TA) will be required with any planning application where a development is likely to have significant transport and related environmental impacts. It should:

- Consider how adverse impacts upon the highway network (and where relevant the local rail infrastructure, cycleways or public rights of way) in the local area can be minimised
- Consider how the potential cross-boundary impacts and cumulative impacts of the development with other local developments can be minimised;
- Identify the measures that will be taken to adequately mitigate or compensate for the anticipated impacts of the proposal and to improve accessibility and safety for all travel modes associated with the development; and
- Identify any mitigation or compensatory works directly related to the development that may need to be funded by the developer in conjunction with the proposal.

16.58 In some cases a development will have limited transport implications, for example where a proposed development is expected to generate relatively low numbers of trips or traffic flows, with minor transport impacts. In these cases a full TA may not be required and a simplified Transport Statement can be produced instead. In some cases no formal assessment will be required at all. Government guidance on this matter is detailed within the document 'Guidance on Transport Assessment', DfT, March 2007.

16.59 Pre-application discussions with the Mineral Planning Authority will be critical to establish the scope of assessment required when considering the transport impacts of minerals development proposals. Transport Assessments should consider the impacts of the minerals development upon all modes of travel likely to be affected by the development. Where there is likely to be significant adverse impacts that cannot be avoided or mitigated, legal agreements will be required to protect and where necessary make improvements to the relevant network.

16.60 Where there are significant impacts from minerals transportation, operators of mineral sites will establish mineral site transport plans in consultation with local communities. These are intended to reduce the impact on nearby residents and promote the sustainable transportation of minerals. These plans should deal with matters such as routing (avoiding weight restricted roads), offsite parking, hours of movement, considerate driving, and complaints procedures. The establishment of mineral site transport plans should be incorporated into pre-application discussions and/or planning agreements and as part of the mitigation measures outlined in Transport Assessments accompanying proposals for minerals development. Many impacts can be controlled through use of appropriate conditions attached to a permission. In addition, although routing agreements can be difficult to enforce, developers are encouraged to consider routing restrictions controllable by agreement to minimise the potential transport impacts of new minerals developments.

16.61 There may be cases where the existing road network is not adequate for the amount of lorry movements associated with a minerals development. This could result in potential damage to the road structure and adverse impact on residential amenity. Where this is the case, it may be possible for the highway authority to seek costs for maintaining the highway as a result of road damage caused by excessive weight or other extraordinary traffic⁽⁴³⁾.

16.62 Section 278 of the Highways Act allows a highway authority to seek costs from a developer, where the developer would derive a special benefit for necessary modifications to be made to a strategic road network as part of the highway authority's proposed works. Also, Section 106 of the Town and Country Planning Act 1990 allows a local planning authority to enter into an agreement with developers for the purposes of restricting or regulating a development including providing for payments of money towards mitigation measures will be sought to achieve road network improvements. Section 106 also allows a local planning authority to receive a unilateral undertaking from developers. It may also be possible to limit vehicle sizes in certain circumstances, for example when a minerals development is located in a sensitive area such as an AONB. **Policy DM10** also refers to legal agreements relating to transport matters.

16.63 Mineral developments can also impact upon other transport and recreational routes such as public rights of way, including footpaths, bridleways and cycle-ways. It is important to safeguard, and where possible improve, these valued assets for their continued enjoyment. Some routes may require temporary diversion for the duration of the development or a permanent diversion where this would be preferable to the reinstatement of the original line.

Policy DM8 - Transport and Minerals Development

Minerals development which could have an adverse impact as a consequence of the traffic generated by it will only be permitted where it is demonstrated, through a Transport Assessment that:

- a. A safe access to the proposed site will be provided;
- b. Developers will provide the funding for any highway and transport network improvements necessary to mitigate or compensate any adverse impact on the safety, capacity and use of a highway, railway, cycleway or public right of way and that these improvements will be delivered in a timely manner; and
- c. The proposal, where possible, has direct access or suitable links with the Dorset strategic highway network or primary route network.

Sustainable transportation should be used where possible and practical, including through minimising distance travelled by road and maximising the use of transport means such as rail, water, pipelines or conveyor belts to transport minerals where practicable and environmentally acceptable. Mineral site transport plans should be established.

Sustainability Appraisal of Policy

This policy specifically seeks to reduce the adverse effects of minerals transportation. This is important since some of the most significant impacts of mineral working relate to transportation.

Airfield safeguarding

16.64 The risk of bird strike is important when considering the afteruse of mineral workings. Airfield Safeguarding Areas are designated within 13km (8 miles) of an airfield, where the owner or operator of civil or military aerodromes are required to be consulted where restoration is proposed through landfill or to a wetland habitat in order to consider the potential bird strike hazard.

16.65 Restoration which enhances biodiversity through creation of wetland habitat may lead to the creation of habitats that attract birds. In the vicinity of an airport this is potentially very dangerous. Careful planning can ensure that it will be possible to enhance biodiversity in this way without possibly contributing to a bird-strike hazard. Examples include the creation of reed beds, instead of open water, which generally do not attract the flocking birds that cause a bird strike hazard, and also the use of smaller expanses of water, such as fragmented ponds.

Policy DM9 - Extraction and restoration within airfield safeguarding areas

Proposals for minerals development partly or completely within the following Airfield Safeguarding Areas will only be permitted when the applicant can demonstrate that the proposed extraction, restoration and afteruse will not give rise to new or increased hazards to aviation:

- a. Bournemouth Airport
- b. Yeovilton Aerodrome

Sustainability Appraisal of Policy

There are no specific effects in relation to the sustainability objectives from this policy. This policy is included for health and safety purposes, to protect aircraft from bird strike.

Legal Agreements

16.66 Any development can put pressure on and potentially over-stretch existing infrastructure and services. Measures can be put in place so that the infrastructure and services needed are delivered hand in hand with the development. The way that infrastructure and services are secured (or contributions towards their provision are made) is generally through the use of a legally binding agreement, known as a planning obligation. The National Planning Policy Framework acknowledges the importance of planning positively for the infrastructure required in the area. This might include the infrastructure required to support development, taking into account costs, sources of funding, responsibilities and timescales for delivery, and possible gaps in funding.

16.67 Such a binding planning obligation may be provided to the Mineral Planning Authority by the applicant or developer (or any others that may have an interest in the land) under Section 106 of the Town and Country Planning Act 1990, in order to make a proposed development acceptable. This can be done unilaterally or through agreement, when it is known as a Section 106 agreement. The obligations created normally run with the land so that they can still be enforced by the planning authority if the land changes ownership.

16.68 National policy advises that planning obligations can make otherwise unacceptable development acceptable. A planning obligation normally requires some action to be taken, or it can be used to impose restrictions. Paragraph 204 of the National Planning Policy Framework sets out the tests which must be met to make a planning obligation acceptable. The Community Infrastructure Levy Regulations 2010 incorporate these tests, requiring a planning obligation to be:

- a. Necessary to make the proposed development acceptable in planning terms
- b. Directly related to the proposed development
- c. Fairly and reasonably related in scale and kind to the proposed development

16.69 The Community Infrastructure Levy (CIL) was introduced in the Planning Act 2008. It is a levy on development intended to provide funding for infrastructure to serve development across the area of the charging authority. Regulations governing the application of CIL came into effect on 6 April 2010. Liability to pay CIL derives from the grant of planning permission. Following the introduction of CIL, the use of Section 106 Planning Obligations is to be scaled back to site specific measures.

16.70 CIL does not apply uniformly to all development. The definition of what it applies to is narrow and relates only to the creation of a new building or alteration to an existing building and there are exemptions. CIL charges could not be applied across the entire site area of a proposed quarry. Securing funding to offset the impacts of a quarry is more likely to be achieved through other means, such as s. 106 agreements. To avoid duplication, the charging authority cannot collect contributions towards the same infrastructure through both CIL and s106.

16.71 Future use of planning obligations in connection with minerals planning is not affected by CIL unless the obligation relates to measures for which CIL is being already charged or is capable of being charged. This is to avoid double counting in respect of any obligations.

16.72 The Planning Act 2008 does not allow for County Councils to be a charging authority although, in the context of minerals planning, County Councils would be the collecting authority. Where CIL is applicable in an area in relation to minerals and waste development, CIL will need to be collected by County Councils and returned to the relevant charging authority. CIL revenue can be used for infrastructure needed to support minerals development. Mineral development however rarely gives rise to new infrastructure requirements and where it does, it is likely to be of a specific nature related to transport matters that are best dealt with through the existing system under section 106 of the 1990 Town and Country Planning Act.

16.73 Since 2007 minerals developments in Purbeck have, where appropriate, contributed towards transport improvements identified in the Purbeck Transport Strategy to mitigate the transport impacts of mineral development. After CIL is introduced these improvement schemes will benefit from CIL funding. Whilst minerals development may not be required to pay CIL, minerals development may be required to contribute through a specific agreement towards this infrastructure as part of the identified need.

Policy DM10 - Planning Obligations

In cases where:

- a. restrictions upon, or measures required to mitigate the impacts of, the winning or working of minerals are essential for proper planning; and
- b. such measures lie outside the normal scope of conditions which could be attached to the planning permission,

the Mineral Planning Authority will seek to establish planning obligations with the developer and landowner through unilateral undertakings or legal agreements.

Sustainability Appraisal of Policy

The policy has no direct effect on the sustainability objectives. However the legal agreements and legal unilateral undertakings which may be undertaken as a result of this policy may have benefits to many of the objectives.

Review of Old Mineral Planning Permissions

The process of reviewing old mineral planning permissions is intended to bring old minerals permissions up to modern environmental standards by attaching new planning conditions. The Environment Act 1995 introduced a requirement on mineral planning authorities to undertake a programme of 'Initial Review' of all mineral planning permissions granted between 30 June 1948 and 22 February 1982, followed by the operation of a programme of 'Periodic Review' and updating of all mineral planning permissions on a 15 year cycle.

16.74 These Review programmes give the Mineral Planning Authority the opportunity to ensure as far as possible that conditions attached to mineral planning permissions remain up-to-date and relevant, without significantly infringing existing working rights⁽⁴⁴⁾.

16.75 During Periodic Reviews, an updated set of conditions must be submitted by the operator for active sites. Applications may be subject to Environmental Impact Assessment. The Mineral Planning Authority may only in exceptional circumstances impose conditions which restrict working rights. If no submission is received by the date stipulated by the Mineral Planning Authority, the mineral permission ceases to have effect, although restoration and aftercare conditions still apply.

16.76 The Mineral Planning Authority will determine applications made under the Review of Old Mineral Planning Permissions in accordance with the Development Management policies and the Restoration policies contained in this plan. It is acknowledged that it may not always be possible to achieve standards that would be expected from new minerals development proposals, and therefore to be wholly consistent with all elements of the policies, however this will be the aim.

Policy DM11 Review of Old Mineral Planning Permissions

The Mineral Planning Authority will, through the determination of applications made under the Review of Old Mineral Planning Permissions legislation, seek to achieve the optimum working and restoration standards achievable by the imposition of appropriate planning conditions and, where necessary, through voluntary agreements and planning obligations.

Sustainability Appraisal of Policy

Improving working and restoration standards through the ROMP process in line with this policy should secure benefits for the environment and amenity through the implementation of appropriate mitigation and restoration.

44 MPG 14 (Review of Mineral Planning Permissions) outlines the manner in which Initial and Periodic Reviews are to be undertaken.

17 Implementation and Monitoring

17 Implementation and Monitoring

17.1 Development plans should set out how they are going to be delivered and their performance measured. This section outlines proposed mechanisms for delivering the Minerals Core Strategy, collecting data and a framework for monitoring its effectiveness.

Implementation

17.2 The Mineral Planning Authority will not implement the core strategy alone. Many aspects of the strategy will require action by a range of other stakeholders working in partnership. The document's role is to provide a clear and robust framework for mineral development in order that investment and action can be co-ordinated and geared to efficient and effective delivery. The monitoring framework set out below states, for each policy, who the key implementation partners are likely to be.

17.3 Due to the specific nature of mineral development all sites that come forward within the Plan period will be delivered through private commercial funding. To build confidence that the Minerals Core Strategy will be deliverable the Plan has involved the industry, landowners, adjoining mineral planning authorities and other stakeholders from the start and has been influenced by their views on what can and is likely to be delivered. This has involved individual meetings and site visits with industry and their representatives and a more formal 'call for sites' exercise.

17.4 It has been possible to reach general consensus with most of the minerals companies that the strategy put forward is deliverable and that the policies will enable the continued extraction of minerals throughout the plan period. However, where there have been difficulties reaching firm conclusions and agreement, these are acknowledged within the relevant sections of the Plan. The key issues of debate are also set out. The Mineral Planning Authority is committed to maintaining good relationships with the key delivery partners and to keep up to date with developments, industry aspirations and issues that could have an impact on the delivery of this strategy.

Collection of Information for Monitoring Purposes

17.5 Aggregates companies are required to return data on primary aggregate production to the Mineral Planning Authority annually. In addition, every four years a major national survey is undertaken on behalf of the Government to collect data on aggregate production, distribution and permitted reserves. These requirements ensure that the Mineral Planning Authority maintains up to date figures in relation to aggregates for use in monitoring.

17.6 For other minerals like Portland and Purbeck Stone and ball clay there are no such formal mechanisms in place. Figures are currently collected on an ad hoc basis as needed. Whilst this approach has enabled an adequate evidence base to be developed to support the Minerals Core Strategy, it has highlighted the need for a more formal way of collecting figures to consistently monitor the success of proposals and policies in the future.

17.7 Policy MON1 sets out the intention of the Mineral Planning Authority to work with minerals/waste operators to obtain annual production figures to ensure that effective monitoring can take place over the plan period. Where new permissions are granted, the Mineral Planning Authority will seek to reach agreement with operators over how best to obtain this information on a regular basis. Planning conditions can be used to provide a consistent basis for obtaining information, for example where output needs to be regulated to minimise impacts, but in some instances the use of conditions may not be suitable and so alternative arrangements will be required. It is also important to obtain information about existing permitted operations to ensure the monitoring data is comprehensive. Information considered confidential will only be published in an aggregated form with other sites in order to ensure commercially sensitive figures are not released.

Policy Policy MON1: Plan, Monitor and Manage

The Mineral Planning Authority will work with local authorities in and around Bournemouth, Dorset and Poole, the minerals and waste industry, regulatory authorities, landowners, local communities, environmental bodies, the Aggregates Working Party and Government departments to plan, monitor and manage minerals development. To achieve this the Mineral Planning Authority will seek a commitment from the minerals industry to supply annual production figures for minerals and recycled aggregates.

Sustainability Appraisal of Policy

Monitoring the amount of mineral extracted allows effective planning of future mineral extraction. This ensures an adequate and steady supply of minerals to meet society's needs and to support economic growth.

The Monitoring Framework

17.8 The strategy is based on the evidence available at the time of preparation. However, the plan covers a period of some 20 years. The information that has informed its preparation will change over time and there will be a need to monitor what is happening and respond to change in the most appropriate way.

17.9 The Mineral Planning Authority will publish monitoring reports to quantify progress in delivering the strategy against the targets and indicators set out in this plan. This will also enable it to assess what impact the policies are having and whether they need adjusting or replacing through a formal review of the Minerals Core Strategy.

17.10 Monitoring will concentrate on key issues which the plan is expected to influence. A set of key indicators and targets have been developed to allow the direct and indirect effects on the plan's strategic objectives to be monitored. The key indicators have come directly from the monitoring section of the Minerals Core Strategy Sustainability Appraisal. They include Core Output Indicators recommended for local authorities in monitoring performance.

17.11 The policies and proposals will also be monitored in terms of their performance against key objectives and targets included in the Sustainability Appraisal, to assess their contribution towards promoting sustainable development. The full sustainability appraisal is a separate document that should be read alongside the core strategy.

17.12 If monitoring indicates that targets have been missed consideration will need to be given to the cause and if this failure is significant. If this is the case the strategy/policy may need to be reviewed and corrected. It may be possible to review certain policies, sections or chapters of the Minerals Core Strategy rather than formally reviewing the entire Plan. Potential issues that may cause the failure of policies are highlighted within the monitoring framework. However, this list is not exhaustive.

17.13 The monitoring framework for the Minerals Core Strategy is set out in the table below.

Table 5 Core Strategy Monitoring Framework

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
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The Strategy for Minerals Provision

SS1: Identification of Sites in the Minerals Site Allocations Document (<i>Contributes towards Plan objective 1</i>)				
Permission granted for a non-allocated site	All permissions consistent with this policy with permissions being for sites allocated within the Minerals Site Allocations Document wherever possible	Minerals industry	Any approval not consistent with this policy	This policy requires new sites to be bought forward by the minerals industry/ landowners for appraisal and those sites being considered acceptable for inclusion in the Minerals Site Allocations Document (MSAD).

Climate Change

CC1 - Preparation of Climate Change Assessments (<i>Contributes towards Plan objectives 4 and 5</i>)				
Applications accepted without a comprehensive Climate Change Assessment Applications where mitigation is incorporated into the scheme	All major applications to be supported by a climate change assessment	Minerals industry	Any approval not consistent with this policy Should applications not include climate change mitigation measures, where these are	Where changes to national policy on climate change result in the Plan conflicting with this policy there would be a need for review.

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
Conditions requiring mitigation measures			appropriate, discussions will be undertaken with Development Management (DM) officers to consider the reasons why and any potential issues this raises with the implementation of policy.	

The Overall Strategy for Minerals Provision

RE1 - Production of Recycled Aggregates (<i>Contributes to Plan objectives 1 and 3</i>)				
Number of applications for recycled aggregate facilities approved or refused	Increase the production of recycled aggregate, in order to reduce the need for primary aggregate	Minerals industry Waste industry	If no applications for new recycling operations emerge this policy will need reviewing. The MPAs may need to be proactive and identify specific sites	In the past it has been difficult to collect and therefore monitor recycled material with the reliance on ad hoc local surveys of the waste industry
Amount of recycled aggregate produced, as a percentage of overall aggregate production/sales	Improved collection of recycling figures			Identification of site specific allocations relies on the minerals and waste industry bringing forward sites for appraisal.

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
AS1 - Provision of Sand and Gravel (Contributes towards Plan objective 1)				
<p>Total quantity of sand and gravel as permitted reserves</p> <p>Total quantity of sand and gravel identified within the Minerals Site Allocations Document</p> <p>Actual sales/production of sand and gravel annually</p>	<p>To identify sufficient sites within the MSAD to deliver production at a level of 15.04 million tonnes (average of 1.78 million tonnes per annum) of sand and gravel per annum</p>	<p>Minerals industry</p> <p>Waste industry</p> <p>SW Aggregates Working Party (AWP)</p>	<p>If it becomes clear that it will not be possible to meet the level of provision at an acceptable environmental cost, from within the resource areas, this policy will need revisiting.</p> <p>If the level of sales consistently exceeds the level of provision further sites may be needed and/or the reliance on the criteria and policies in the Minerals Core Strategy.</p>	<p>Implementation during the early part of the plan period is dependant on existing permitted sites continuing to be worked to their full extent.</p> <p>As sites are exhausted this policy will require new sites to be identified. This relies upon the minerals industry and landowners bringing forward sites for appraisal.</p>
AS2 - Landbank Provision (Contributes towards Plan objective 1)				
<p>Level of permitted reserves of each material and current landbank figure</p>	<p>Maintenance of a 7 year landbank through mineral permissions</p>	<p>Minerals industry</p> <p>SWAWP</p>	<p>If it is clear that applications are not being granted then the size of the landbank will fall and the policy may need revising.</p>	<p>Relies on the minerals industry and landowners bringing applications forward.</p>

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
AS3 - Crushed Rock (Contributes towards Plan objective 3)				
<p>Whether or not any new sites for crushed rock are permitted</p> <p>Actual sales/production of crushed rock annually</p>	<p>No permissions granted for the processing and production of crushed rock</p>	<p>Minerals industry</p> <p>SWAWP</p>	<p>Landbank of less than 10 years</p>	<p>A landbank of less than 10 years would identify the need for additional supply of crushed rock and a review of policy.</p>
AS4 - Wharves and Depots (Contributes towards Plan objectives 1 and 5)				
<p>Permissions for other forms of development at existing rail depots and wharves which would prevent or prejudice the current use - application of safeguarding policy</p> <p>New rail depots and aggregate wharves,</p> <p>and the expansion and/or modernisation of existing sites.</p>	<p>Establishment of new wharf or depot sites</p> <p>No net loss of land at existing wharves and depots</p> <p>No net decreases in percentage share transported by rail/water</p>	<p>District/Borough Councils</p> <p>Minerals Industry</p> <p>Port Authorities</p> <p>Network Rail</p> <p>Landowners</p>	<p>If new information identified the need for a wharf or depot there may be the need to review the policy and consider more proactive policy guidance and the identification of site specific allocations</p>	<p>Proximity of minerals workings to transport infrastructure, feasibility of moving minerals by rail/water due to location of markets may hinder opportunities.</p> <p>In addition, identification of potential sites will rely on landowners and transport organisations bringing forward sites.</p>
AS5 - Borrow Pits (Contributes to Plan objectives 1, 3 and 5)				

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
Number of permissions for Borrow Pits	<p>Ensure proposals have minimum detrimental impact</p> <p>All permissions consistent with all the criteria in this policy</p>	<p>Development industry</p> <p>Minerals industry</p>	Any approval not consistent with this policy	None identified

The Strategy for Ball Clay Extraction

BC1 - Provision of Ball Clay (<i>Contributes towards Plan objective 1</i>)				
<p>Tonnage of material identified within the areas of least sensitivity included in the MSAD</p> <p>Tonnage of material identified from sites outside of the areas of least environmental sensitivity included in the MSAD</p> <p>Total quantity of ball clay as permitted reserves</p> <p>Actual sales/production of ball clay annually</p>	To maintain an adequate supply of all grades of ball clay	Minerals industry specifically - Ball Clay industry	If it is clear that permitted reserves are unlikely to be sufficient to maintain an adequate and steady supply then the policy may need to be reviewed	<p>Investigating specific mineral resources is reliant on third party investigations</p> <p>It may not be possible to identify sufficient sites in the MSAD. Therefore the MCS contains criteria within policies to guide planning applications.</p> <p>Due to the sensitive location of the ball clay resource delivery of this strategy will rely on proposals</p>

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
				demonstrating that there would be no effects on designations.
BC2 - Ball Clay Transportation (Contributes towards Plan objective 5)				
The extent to which any alternative means of transport to and from Furzebrook are utilised	<p>Consideration of alternatives to the bulk transportation of minerals by road in applications.</p> <p>Applications including an increase in transportation to be accompanied by a statement of sustainable transport options.</p>	Minerals industry specifically - Ball Clay industry	Any approval not consistent with this policy	None identified
BC3 - Extraction of Sand and Gravel in association with Ball Clay within the AONB (Contributes towards Plan objective 1 and 2)				
Number of permissions and allocations within the Minerals Site Allocations Document for the extraction of sand and gravel in association with ball clay working within the AONB which are not consistent with the policy.	All permissions consistent with this policy	<p>Ball Clay Industry</p> <p>Aggregates industry</p> <p>Dorset AONB Partnership</p>	Any approval for large scale or major extraction of sand and gravel, in association with ball clay, within the AONB would be contrary to this policy. The	None identified

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
			need for policy review may be necessary.	

The Strategy for Purbeck Stone Extraction

PK1 - Provision of Purbeck Stone (<i>Contributes towards Plan objective 2</i>)				
Level of output of Purbeck Stone	Sites identified in MSAD to meet requirement of 143,000 tonnes (an average of 25,000 tpa).	Minerals industry - specifically Purbeck Stone operators	Significant increase in output may require a policy review	<p>National Trust restrictions may have an impact on the delivery of this policy. If this becomes an issue when identifying sites, discussions with the NT will be necessary.</p> <p>MPA lack the detailed geological information and financial resources to investigate specific mineral resources - reliant on third party investigations</p> <p>- sites beyond those in MSAD may be needed, which it is not possible to prescribe at this time.</p>

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
PK2 - Considerations for Purbeck Stone Extraction (<i>Contributes towards Plan objectives 4 and 5</i>)				
Grant of permission from outside the Area of Search	Permitted sites consistent with the policy criteria	Minerals industry - specifically Purbeck Stone operators	If site are being permitted or allocated from outside the Area of Search, consideration may need to be given to whether the identified area remains appropriate - e.g. new evidence that may require a revision to the identified area or an exception to the policy is unlikely to be repeated?	Identification of potential sites will rely on landowners bringing forward sites.
PK3 - Service Areas (<i>Contributes to Plan objective 5</i>)				
Number of conditions linked to site improvements Net change in the number of service areas	No net increase in number of service areas	Minerals industry - specifically Purbeck Stone operators	Approval for any additional service area Advances in technology	None identified
PK4 - Crushing of Purbeck Stone (<i>Contributes towards Plan objectives 3 and 5</i>)				

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
Amount of Purbeck Stone allowed to be crushed as a result of permissions being granted	Crushing only in line with exceptional circumstances outlined	Minerals industry - specifically Purbeck Stone operators	Any approval not consistent with this policy Any unexpected and exceptional need for crushed rock could highlight a need for review	None identified

PK5 - Importation of stone from Outside Purbeck (*Contributes towards Plan objective 5*)

Number of permissions for the processing, storage and resale of imported stone and total tonnage permitted	No permissions for storage and resale of imported stone Importation of stone for processing should be in keeping with current levels	Minerals industry - specifically Purbeck Stone operators	Any approval not consistent with this policy A significant rise in the amount of imported stone permitted	None identified
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The Strategy for Portland Stone Extraction

PD1 - Underground Mining and High Wall Extraction of Portland Stone (*Contributes to Plan objective 2*)

Number of underground/high wall mines permitted Quantity of reserves relinquished	All permissions consistent with this policy Relinquishment of areas most sensitive surface quarrying	Minerals industry - specifically Portland Stone operators	Any approval not consistent with this policy	Relies on the minerals industry bringing forward sites for approval. Currently only one operator is investing in
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Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
	Improved restoration schemes			technology suitable for mining.
PD2 - Surface quarrying of Portland Stone <i>Contributes to Plan objective 5)</i>				
Number of refusals issued and permissions granted for new quarries on Portland Quantity of reserves relinquished	No permission for surface extraction unless environmental improvements would be achieved	Minerals industry - specifically Portland Stone operators	Any approval for the opencast extraction of Portland Stone where there are no environmental improvements secured	None identified
PD3 - Relinquishment of Permission (<i>Contributes to Plan objective 5)</i>				
Extent of areas where planning permission is relinquished from within and outside of areas identified as preferred for relinquishment Mechanisms through which this is secured	Reduce surface quarrying and extraction from the cherty series from those areas identified as sensitive	Minerals industry - specifically Portland Stone operators	Any approval not consistent with this policy	Relies on voluntary agreement of the minerals industry to leave sensitive areas unworked.
PD4 - Minimising Environmental Impacts of existing permissions (<i>Contributes to Plan objectives 3 and 5)</i>				
Number and nature of conditions imposed through the Review of Old Mineral Planning	ROMP applications determined in accordance with this policy	Minerals industry - specifically Portland Stone operators	ROMP determined without securing the improvements set out	None identified

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
Permissions (ROMP) process originating from the application of this policy, that will bring about environmental improvements				
PD5 - Restoration of Sites on Portland (<i>Contributes to Plan objectives 4 and 5</i>)				
Number of restoration schemes secured that address the issues covered by this policy	All schemes consistent with this policy in terms of achieving a positive outcome from the restoration of former workings	Minerals industry - specifically Portland Stone operators	If it appears that restoration schemes are not achieving the criteria set out it may become necessary to prepare an SPD dealing specifically with restoration of existing sites on Portland.	None identified

The Strategy for Building Stone Extraction

BS1 - Building stone quarries (<i>Contributes to Plan objective 2</i>)				
Number of sites identified in the MSAD and/or new permissions for building stone quarries or extensions to existing quarries	No specific target production/sales figure, monitor to assess future need Identify specific sites in the MSAD, as appropriate.	Minerals industry District/Borough Councils	Any approval not consistent with this policy	Safeguarding policies will be of key importance to the delivery of this policy

The Strategy for Hydrocarbons

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
HY1 - Proposals for Exploration and Appraisal (<i>Contributes towards Plan objectives 1 and 6</i>)				
Number of permissions granted in accordance with the policy	All permissions consistent with policy	Minerals industry	Any approval not consistent with this policy	None identified
HY2 - Proposals for Production Sites and Ancillary Development (<i>Contributes towards Plan objectives 1 and 5</i>)				
Number of permissions granted in accordance with the policy Facilities permitted that sit within an agreed overall framework	All permissions consistent with policy All frameworks agreed	Minerals industry	Any approval not consistent with this policy	None identified
HY3 - Transportation of Hydrocarbons (<i>Contributes towards Plan objective 5</i>)				
Number of developments permitted that use pipelines or rail haulage for the transportation of hydrocarbons	All developments use pipelines or rail haulage	Minerals industry	It may be necessary to review this policy if the percentage of developments not using pipeline or rail haulage is significant	None identified
HY4 - Decommissioning and Restoration of Production Facilities and Ancillary Development (<i>Contributes towards Plan objective 4</i>)				
Conditions attached to permissions for production sites	Well sites and facilities are restored promptly.	Minerals industry	Permission granted with no requirement for the submission	None identified

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
requiring the submission of a decommissioning strategy and restoration scheme.	Decommissioning and restoration is in accordance with a strategy agreed by the MPA.		of a decommissioning/restoration strategy.	
HY5 - Underground Gas Storage (Contributes towards Plan objectives 1 and 5)				
Permissions granted and refused for underground gas storage	All permissions consistent with this policy	Minerals industry	Any approval not consistent with this policy. If it is deemed unlikely that any further applications will be received for underground gas storage it may be appropriate to delete this policy	None identified

Other Minerals

IS1 - Industrial Sand (Contributes towards Plan objectives 1 and 5)				
Total quantity of industrial sand as permitted reserves	All permissions consistent with this policy	Minerals industry SWAWP		
Total quantity of industrial sand identified within the Minerals Site Allocations Document				

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
Actual sales/production of industrial sand annually				

Safeguarding

SG1 Minerals Safeguarding Area (Contributes towards Plan objectives 1, 3 and 6)				
Number of applications refused/objections made on safeguarding ground or approved with prior extraction	No sterilisation of economically important mineral resources	District/Borough Councils Adjoining Authorities Minerals Industry Development Industry	Any sterilisation of economically important mineral resources Safeguarding areas are vital to the delivery of the MCS in order to prevent development that may prejudice future mineral working.	Delivery will require close working with district/borough councils to protect minerals resources and allow future extraction to take place. Ensuring up-to-date proposals map. May lack detailed information to investigate fully resources - reliant on third party data.
SG2 - Mineral Consultation Area (Contributes towards Plan objectives 1, 3 and 6)				

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
<p>Number of consultations undertaken</p> <p>Number of developments without prior extraction of minerals resources</p>	<p>District/Borough Councils to consult Dorset County Council over all proposals within or partly within MCA</p> <p>No sterilisation of economically important mineral resources</p>	<p>District/Borough Councils</p> <p>Adjoining Authorities</p> <p>Minerals Industry</p> <p>Development Industry</p>	<p>Any sterilisation of economically important mineral resources.</p>	<p>Delivery will require close working with district/borough councils to protect minerals resources and allow future extraction to take place.</p> <p>Ensuring up-to-date proposals map</p>

SG3 - Safeguarding of Mineral Sites and Facilities (Contributes towards Plan objectives 1, 3 and 6)

<p>Number of applications having an adverse effect on safeguarded minerals sites or facilities</p>	<p>No negative impacts on existing minerals operations</p>	<p>District/Borough Councils</p> <p>Bournemouth and Poole Authorities</p> <p>Adjoining Authorities</p> <p>Minerals Industry</p> <p>Development Industry</p>	<p>District/Borough Councils not consulting the County Council over relevant proposals.</p>	<p>Delivery will require close working with district/borough councils to protect sites and facilities</p>
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Restoration

RS1: Restoration, aftercare & afteruse of minerals development (Contributes to Plan objective 4)

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
<p>The completion of a Restoration SPD</p> <p>Number of schemes achieving habitat creation delivering objectives of Biodiversity Action Plan</p> <p>% of minerals development planning applications compliant with the requirements of the policy</p>	<p>100% of applications/permissions consistent with this policy</p> <p>An SPD on restoration to be completed in order to provide detailed guidance on restoration</p>	<p>Minerals industry</p> <p>Internal specialists inc Ecologist and Landscape Architect</p>	<p>Any approval not consistent with this policy</p>	<p>If an SPD is not produced there may be implications for site restoration, however as specific guidance for the management of the landscape types of the county have been produced these should help provide advice.</p> <p>The Dorset Biodiversity Strategy and other local strategies should also be used to guide development in the absence of an SPD.</p>
<p>RS2: Retention of Plant, Machinery and Ancillary Development (Contributes to Plan objectives 1 and 4)</p>				
<p>Permissions granted or refused for the retention of plant and machinery</p>	<p>100% of applications/permissions consistent with this policy</p>	<p>Minerals and Waste Industry</p> <p>Internal specialists inc Ecologist and Landscape Architect</p>	<p>Any approval not consistent with this policy</p>	<p>None identified</p>
<p>RS3: Establishment of local liaison groups <i>Contributes to Plan objective 4 and 5)</i></p>				

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
Number/ proportion of consents where a local liaison group has been established.	All new mineral extraction permissions to have considered and where appropriate established local liaison groups	Minerals industry Local communities	If a significant proportion of new mineral sites do not have a local liaison group, discussions will be necessary with DM and possibly with the minerals industry to establish why.	Establishment of liaison groups needs the commitment of the minerals industry and local communities.

Development Management

DM1: Key criteria for sustainable minerals development <i>Contributes towards Plan objectives 1, 2 and 5)</i>				
% of minerals development planning applications compliant with the requirements of the policy	100% applications/permissions consistent with this policy in order to deliver the key objectives of the Plan	Minerals industry Various environmental bodies & Internal specialist Delivered through Development Management	Any approval not consistent with this policy	Identification of mitigation may be essential to the implementation of this policy and the delivery of the Plan
DM2: Managing the impacts on Amenity <i>(Contributes towards Plan objective 5)</i>				
% of minerals development planning applications compliant with the requirements of the policy	100% of applications/permissions consistent with this policy	Minerals industry Various environmental bodies & Internal specialist	Any approval not consistent with this policy	Environmental Impact Assessment Regulations require an assessment of significant

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
			<p>through failing to meet the criteria</p> <p>This policy will apply when development falls below the EIA threshold</p>	<p>environmental effects of certain developments and therefore will highlight specific impacts that need to be assessed - matter for the MSAD</p> <p>Identification of mitigation may be essential to the implementation of this policy and the delivery of the Plan</p>
<p>DM3: Managing the impact on surface water and groundwater resources (<i>Contributes towards Plan objective 5</i>)</p>				
<p>Number of proposals including a FRA and/or incorporating SUDs</p> <p>% of minerals development planning applications compliant with the requirements of the policy</p>	<p>100% applications/permissions consistent with this policy in order to protect and enhance the water environment</p>	<p>Minerals industry</p> <p>Environment Agency</p> <p>Water Companies</p>	<p>Any approval not consistent with this policy</p>	<p>Likely to require the input from external specialist consultees such as the EA and other infrastructure providers</p>
<p>DM4: Protection and enhancement of landscape character & the countryside (<i>Contributes towards Plan objective 5</i>)</p>				

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
<p>Number of proposals including an assessment of the adverse impacts upon landscape character</p> <p>% of minerals development planning applications compliant with the requirements of the policy</p>	<p>100% applications/permissions consistent with this policy</p>	<p>Minerals industry</p> <p>DCC Landscape Officer</p> <p>AONB Management Teams</p>	<p>Any approval not consistent with this policy</p>	<p>Documents such as the Dorset Landscape Character Assessment, AONB Management Plan and the South East Dorset Green Infrastructure Strategy should provide further guidance to help delivery of this policy.</p>
<p>DM5: Biodiversity and Geological Interest (<i>Contributes towards Plan objective 5</i>)</p>				
<p>Number of proposals including an assessment of the biodiversity and geodiversity interest.</p> <p>Number of applications where biodiversity benefits are identified</p> <p>% of minerals development planning applications compliant with the requirements of the policy</p>	<p>100% applications/permissions consistent with this policy in order to protect, maintain and / or enhance sites and species of international and national importance</p>	<p>Minerals industry</p> <p>Various environmental bodies, including Natural England</p> <p>DCC Ecologist</p>	<p>Any approval not consistent with this policy</p>	<p>Delivery of this strategy will rely on proposals demonstrating that there would be no unacceptable effects on designations. This will not be met if significant adverse impacts cannot be mitigated.</p> <p>Documents such as the Dorset Local Geodiversity Action Plan should provide</p>

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
				<p>further guidance to help delivery of this policy.</p> <p>Identification of mitigation may be essential to the implementation of this policy and the delivery of the Plan - where mitigation cannot be identified and sites cannot be developed.</p>
<p>DM6: Dorset and East Devon Coast World Heritage Site (<i>Contributes towards Plan objective 6</i>)</p>				
<p>Number of relevant proposals with assessment of impact on and mitigation for the World Heritage Site and its setting</p>	<p>All permissions consistent with this policy</p>	<p>Minerals industry</p> <p>Dorset & East Devon Coast World Heritage Site Steering Group</p> <p>Jurassic Coast World Heritage team</p> <p>Various environmental bodies</p>	<p>Any approval not consistent with this policy</p>	<p>None identified</p>
<p>DM7: The Historic Environment (<i>Contributes towards Plan objective 5</i>)</p>				

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
<p>Number of proposals including an assessment of the historic environment and/or archaeological evaluation</p> <p>% of minerals development planning applications compliant with the requirements of the policy</p>	<p>100% applications/permissions consistent with this policy</p>	<p>Minerals industry</p> <p>English Heritage</p> <p>DCC Historic Environment Team</p>	<p>Any approval not consistent with this policy</p>	<p>Minerals and Historic Environment Forum practice guide and Historic Landscape Characterisation study may provide further guidance to help delivery of this policy.</p>
<p>DM8: Sustainable Transport and Minerals development (<i>Contributes towards Plan objective 5</i>)</p>				
<p>% of proposals facilitating sustainable transport in compliance with the policy</p> <p>Number of applications accompanied by a TA</p> <p>Number of Applications containing sustainable transport assessment</p>	<p>100% applications/permissions consistent with this policy</p>	<p>Minerals industry</p> <p>Highway Agency</p> <p>Internal Specialists</p>	<p>Any approval not consistent with this policy</p>	<p>Possible options for facilitating sustainable transport such as rail and water are different for each mineral type but generally may be limited in the county.</p> <p>Minerals can only be worked where found and there are many instances where they are required to be</p>

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
				worked some distance from the strategic highway network
DM9: Extraction and Restoration within Airfield Safeguarding Areas (<i>Contributes towards Plan objectives 4 and 5</i>)				
% of minerals development planning applications compliant with the requirements of the policy	100% applications permissions consistent with this policy	Minerals Industry DCC Ecologist Owner/operator of civil or military aerodromes	Any approval not consistent with this policy	None identified
DM10: Legal Agreements (<i>Contributes towards Plan objective 4 and 5</i>)				
Number of relevant permissions issued which include legal agreement	All permissions which require or qualify for a legal agreement to have one.	Mineral industry District/Borough Councils	Any qualifying proposed development permitted without the benefit of a legal agreement.	None identified
Policy DM11: Review of Old Mineral Planning Permissions (<i>Contributes towards Plan objective 4 and 5</i>)				
Number of times policy used in ROMP decisions	All relevant applications permissions consistent with this policy through the achievement of optimum working and restoration standards	Mineral industry	Any approval not consistent with this policy	None identified

Key Indicators(s)	Target	Implementation Partners	Trigger Point for correction and/or mitigation	Implementation Issues
Implementation and Monitoring				
Policy MON1: Monitor and Manage (Contributes towards Plan objectives 1, 2, 3 and 5)				
Number of applications including conditions related to the supply of production figures on a regular basis.	All relevant applications/permissions consistent with this policy	Minerals and Waste Industry SWAWP Government departments	Any approval not consistent with this policy	There could be issues around commercial confidentiality that could limit the availability of information for use in monitoring purposes.

Glossary

Glossary

GLOSSARY OF TERMS

Aftercare: The cultivation, treatment and management of land, after initial shaping of materials and replacement of soils on completed mineral workings and tips, to bring land to the required standard for use for agriculture, forestry or amenity.

After-use: The use of land after reclamation for such activities as agriculture, forestry, nature conservation, public open space, recreation or other development.

Aggregate: Particles of rock or inorganic manufactured material which when brought together in a bound or unbound condition form part or whole of a building or civil engineering structure.

Aggregates Working Party (AWP): These groups provide technical advice to the Secretary of State in relation to the supply of and demand for aggregate minerals.

AONB (Area of Outstanding Natural Beauty): An area with statutory national landscape designation, the primary purpose of which is to conserve and enhance natural beauty. Together with National Parks, AONBs represent the nation's finest landscapes.

Apportionment: The proportional split of the Government guidelines for the supply of aggregates between regions in England. Sub-regional apportionment is the split of regional guidelines between Mineral Planning Authorities.

Appropriate Assessment: Formal assessment by the Competent Authority of the impacts of a plan or project on the integrity of a Natura 2000 site (a Special Protection Area (SPA), Special Area for Conservation (SAC) or proposed SPAs and Ramsar sites).

Armour Stone: Large blocks of stone used primarily for sea defence schemes to combat erosion.

BAP: See UKBAP below.

Biodiversity: The whole variety of life encompassing all genetics, species and ecosystem variations including plants and animals.

Borrow Pit: A site for the extraction of aggregate minerals over a limited period, for exclusive use in a specific construction project, which will usually be close to or contiguous with the site.

Bund: Mound or embankment of inert material, usually overburden or soil, which is used as a visual and/or acoustic barrier.

Carboniferous Limestone: An important source of crushed rock aggregate, suitable for concrete manufacture and roadstone. The Mendips form the main source of Carboniferous Limestone used in Dorset.

Cherty Series: The lowest of the Portland Beds, providing rock which is only suitable for crushing.

Communities and Local Government (CLG): National government department responsible for policy to support local government; communities and neighbourhoods; regeneration; housing; planning, building and the environment; and fire.

Conservation Areas: Areas of special architectural or historic interest, the character of appearance of which it is desirable to preserve or enhance.

CRA: Conservation Regulations Assessment. European legislation, and UK government's regulations, have introduced a need to carry out Conservation Regulations Assessments for local development documents and for particular development projects in order that the integrity of internationally important nature sites are protected.

Crushed Rock: Naturally occurring rock which is crushed into a series of required sizes to produce an aggregate.

Deposit: A concentration of mineral or sediment in a layer, vein or pocket.

Development Plan Documents (DPDs): Documents which form the statutory development plan and which contain planning policies and proposals. They are subject to independent examination and there will be a right for those making representations to be heard at an independent examination. DPDs include the core strategy and site-specific allocations of land. Once adopted, development management decisions must be made in accordance with these DPDs, unless material considerations indicate otherwise.

Dimension stone: Stone cut to regular shapes as sizes of block, for use in the construction industry.

Dormant mineral site: A dormant site is one where no substantial development has been carried out in the period beginning on 22 February 1982 and ending on 6 June 1995. No further mineral development can be carried out on dormant sites until a new scheme of conditions has been submitted to and approved by the Mineral Planning Authority.

English Heritage: The Government's statutory adviser on the historic environment and the lead body for the heritage sector. Its strategy is to make the past part of the future by creating a cycle of understanding, valuing, caring and enjoying the historic environment.

Environment Agency: Established in 1996, the organisation takes direction from the Secretary of State for Environment, Food and Rural Affairs (Defra). It has responsibility for protecting the environment and contributing to sustainable development, such that all elements of the environment are taken into account, enabling consideration of the different impacts on water, land and air.

Environmental Assessment: The method of determining the environmental impact of a development proposal prior to the determination of a planning application.

Flood Zone: Flood zones show the probability of river and sea flooding in an area. Flood Zone 3 is split into Flood Zone 3a, which has a high probability of flooding, and Flood Zone 3b, which is the functional floodplain. Flood Zone 2 is assessed as having a medium probability of flooding. Flood Zone 1 is all land falling outside of Flood Zones 2 and 3 and is assessed as having a low probability of flooding.⁽⁴⁵⁾

Freestone: A stone, such as limestone, that is soft enough to be cut easily without shattering or splitting.

Gathering Station: A complex, covering several hectares, at which oil and gas from remote well sites is 'gathered' and processed prior to being dispatched by rail, road or pipeline. It includes the control centre for the oilfield and individual well sites. At Wytch Farm, the gathering station provides facilities for generating power from gases and for processing seawater for injection into the reservoir.

Geodiversity: The variety of rocks, fossils, minerals and natural processes.

Heritage Coast: Undeveloped coast, originally designated by the former Countryside Agency as being of outstanding scenic value, and therefore in need of special protection while allowing management of the often competing needs of conservation, recreation, tourism and commercial activity such as shipping and fishing in a co-ordinated way.

High-wall mining: High wall mining or extraction consists of a series of small mines that extract otherwise wasted stone that sits between the final faces of the quarry and the actual boundary of the site.

Historic Environment: The physical legacy of thousands of years of human activity in this country, in the form of buildings, monuments, sites and landscapes.

Hydrology: The study of the movement of surface water.

Inert Fill/Waste: Waste products that do not undergo any significant physical, chemical or biological transformation and which are used in restoration to alter the profile of land following mineral extraction.

Jurassic Limestone: A limestone of Jurassic age generally regarded as "weak" and unsuitable for concrete manufacture and coating roadstone. Most limestone in Dorset is Jurassic.

Jurassic Coast World Heritage Site: Formally known as the Dorset and East Devon Coast World Heritage Site, it comprises the undeveloped cliffs and beaches between Orcombe Point near Exmouth in East Devon and Studland Bay near Poole in Dorset. It was granted World Heritage status on 13th December 2001.

Landbank: A "stock" of permitted reserves of a mineral within a particular area.

Landscape Character Assessment: A Landscape Character Assessment is a tool for identifying the distinct and recognisable elements in the landscape that give a locality its sense of place, describing what makes it different from its neighbouring areas.

Listed Building: a building that has been placed on the 'Statutory List of Buildings of Special Architectural or Historic Interest', which applies to half a million buildings in the UK.

Local Nature Reserves (LNRs): Local authorities can, under Section 21 of the National Parks and Access to the Countryside Act 1949, create and manage Local Nature Reserves. Sites offering special opportunities for people to see, learn about and enjoy wildlife may qualify as an LNR as long as the site is in local authority control.

Marine Dredged Aggregates: Sand and gravel dredged from deposits on the seabed and landed at wharves for use as aggregate.

Marine Wharfs: Points at which marine-dredged sand and gravel are landed and processed.

Minerals: Includes all substances of a kind ordinarily worked for removal by underground or surface working, except that it does not include peat cut for purposes other than for sale (s.336 to s.336(1), Town & Country Planning Act 1990 (as amended)).

Mineral Consultation Area (MCA): An area considered to contain a mineral resource worthy of safeguarding within which district/borough councils are required to consult Dorset County Council on non-minerals development proposals which could lead to sterilisation.

Minerals development: The winning and working of minerals, including extraction, tipping, processing, reclamation and ancillary operations.

Mineral Development Document (MDD): Any document included in the Minerals Development Framework.

Minerals Development Framework (MDF): Minerals Development Frameworks comprise a folder of documents for delivering the minerals spatial strategy for the area, including the Minerals Core Strategy, Site Allocations Document and Proposals Map.

Minerals & Waste Development Scheme (MWDS): This is a project plan providing a timetable for the preparation of mineral and waste development documents.

Mineral Planning Authority (MPA): The planning authority responsible for managing minerals development. Dorset County Council and the unitary authorities of Bournemouth and Poole are responsible for mineral planning in their areas.

Minerals Policy Guidance (MPG): National policy guidance for minerals development, and supporting material (ie good practice guides) in effect prior to the NPPF. Following enactment of the NPPF, all but four MPGs were revoked and replaced by the NPPF. The extant MPGs are: MPG4, MPG8, MPG9, MPG14.

Minerals Policy Statement (MPS): National policy guidance for minerals development, and supporting material (ie good practice guides) in effect prior to the NPPF. These statements replaced some guidance found in Minerals Planning Guidance Notes (MPGs). Following enactment of the NPPF, all MPSs were revoked and replaced by the NPPF.

Mineral Safeguarding Area (MSA): An area considered to contain a valuable mineral resource which should be safeguarded against sterilisation by development.

Modification Order: A legal instrument which modifies a planning permission. Anyone whose rights are directly affected as a result may be able to claim compensation from the planning authority.

National Nature Reserves: National Nature Reserves are areas of national and sometimes international importance for nature conservation which are owned or leased by English Nature or a body approved by them, or are managed in accordance with a Nature Reserve agreement with landowner and occupiers. Many such reserves are also SSSIs.

National Planning Policy Framework (NPPF): New national planning policy guidance enacted on 27 March 2012 to replace national guidance in the form of PPSs, MPSs, and MPGs.

Natura 2000: A network of protected environmental areas known as 'Natura 2000', which comprise all the SPA and SAC designations.

Natural England: Natural England is an independent public body whose purpose is to protect and improve England's natural environment covering urban, country and coastal landscapes, along with associated animals, plants and other organisms.

Outstanding Universal Value (OUV): The reason a site is included on the World Heritage List. Such sites have a "cultural and/or natural significance which is so exceptional as to transcend national boundaries and to be of common importance for present and future generations of all humanity. As such, the permanent protection of this heritage is of the highest importance to the international community as a whole". (Operational Guidelines for the World Heritage Convention 2008, para 49).

Overburden: Material, whether consolidated or not, which has to be removed before a mineral can be worked.

Palaeogene: The period of geological time between 65 and 23 million years ago, which is the early part of what was formerly known as the Tertiary period.

Permitted Reserves: Mineral deposits with the benefit of planning permission for extraction.

Planning condition: A condition imposed upon a planning permission, to mitigate any potential harmful effects of development.

Planning Policy Statements (PPS): National planning policy guidance and supporting material (ie good practice guidance). These replaced guidance found in some Planning Policy Guidance (PPGs). However, following enactment of the NPPF, all but one of the PPSs were revoked and replaced by the NPPF: PPS10 remains extant.

Primary Aggregates: Naturally occurring sand, gravel and crushed rock used for construction purposes.

Ramsar: A wetlands Site of Special Scientific Interest which is designated by the Secretary of State for the Environment under the Ramsar Convention as being of international importance, especially for waterfowl habitat.

Reclamation: The combination of restoration and aftercare.

Recycled aggregates: Recycled construction materials, produced from crushing and screening inert wastes such as demolition waste, road planings etc.

Restoration: The return of land to its former use or another suitable and beneficial new use, once mineral extraction from the land has been completed.

Regionally Important Geological Site (RIGS): RIGS are sites notified to the local planning authority as being of geological and/or geomorphological interest with educational potential. There is no statutory basis for such protection. This can however be sought through planning policy.

Review of Mineral Planning Permission (ROMP): Under Section 96 of the Environment Act 1995, MPAs are required to undertake a 'rolling' review of all existing planning permissions for winning and working of minerals or the deposition of mineral waste. This provides for the updating of planning conditions attached to old planning permissions.

Safeguarding: The protection of all types of minerals (which are, or may become, of economic importance) against other types of development which would be a serious hindrance to the mineral extraction.

Scheduled Monument (SM): A monument scheduled under the Ancient Monuments and Archaeological Act 1979.

Scoping Report: This sets out the framework that will be used to appraise policies, proposals or guidance against sustainability criteria.

SEA: Strategic Environmental Assessment. The analysis and evaluation of the environmental effects of a policy, plan or programme as required by the European SEA Directive of 2001.

Secondary aggregates: These include mineral by-products (such as waste sand from china clay), industrial wastes such as slag and railway ballast, and industrial by-products such as spent foundry sand.

Secretary of State (SoS): A cabinet minister in charge of of a Government department (such as SoS for Environment, Food and Rural Affairs; SoS for Communities and Local Government (CLG)).

Sensitive Receptor: Places/facilities where people may be affected by mineral developments; including, but not limited to, footpaths, churches, dwellings, residential areas, schools, recreational areas, visitor/tourist attractions, hospitals, travellers' sites, cemeteries.

SNCI: Sites of Nature Conservation Interest (SNCI) are areas which are designated locally for their wildlife importance. The SNCI designation does not carry any statutory protection.

Spatial Planning: Spatial planning goes beyond traditional land use planning and seeks to integrate policies for the development and use of land with those of other policies and programmes which influence the nature of places and how they function.

Spatial Vision: A description of how the area will be changed by the end of the plan period.

Special Areas of Conservation (SAC): Designated SSSIs which are of international importance which are designated as SACs under Article 3 of the European Habitats Directive of 1992.

Special Protection Areas (SPA): Designated SSSIs which are protected under Article 4 of the European Birds Directive of 2009, for the conservation of rare and vulnerable birds.

SSSI: (Site of Special Scientific Interest). Land which in the opinion of Natural England is of sufficient interest by reason of its flora, fauna, geological or physiographical features to justify statutory designations.

Stakeholder: A person, group, organisation, who affects or can be affected by, an organisation's actions.

Statement of Community Involvement (SCI): A document prepared as part of the development framework setting out when and how the community is to be involved in plan preparation and the determination of planning applications.

Supplementary Planning Document (SPD): These provide guidance to supplement the policies and proposals in development plan documents. They will not form part of the development plan or be subject to independent examination but will be a material consideration when making planning decisions.

Sustainability Appraisal (SA): The purpose of sustainability appraisal is to appraise the social, environmental and economic effects of policies so that decisions can be made that accord with the objectives of sustainable development. The appraisal process incorporates the requirements of Strategic Environmental Assessment.

Sustainable Development: The concept of meeting the needs of today without compromising the ability of future generations to meet their needs, taking account of social, environmental and economic need.

tpa: tonnes per annum (of mineral extracted).

UKBAP: The UK Biodiversity Action Plan aims to describe the biological diversity resources of the UK, and set out a detailed plan for their conservation.

Vernacular: Methods of 'built-form' (ie buildings) construction which use locally available resources and traditions to address local needs and circumstances.

World Heritage Site: A geographical place that is listed by UNESCO as being of special cultural or physical significance (see 'Outstanding Universal Value').

Appendix 1: Proposed Minerals Site Assessment Criteria

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What is the purpose of the site selection criteria?

1 The site selection criteria, set out in this section, are a means of testing the suitability of individual mineral sites. The criteria have been developed in order to ensure a standardised approach which will be used to assess each site being considered for inclusion in the Minerals Site Allocations Document. This will provide consistency and a clear audit trail to demonstrate how assessments have been undertaken.

Relationship between the site selection criteria and the sustainability appraisal

2 Carrying out sustainability appraisal of the emerging minerals policy documents is required by government. It provides important information on the effects that the implementation of policies and proposals could have socially, economically and on the environment.

3 The site selection criteria cover all aspects of sustainable development. They have been developed from the sustainability objectives identified in the Sustainability Appraisal Scoping Report⁽⁴⁶⁾. This is to ensure that sites are appraised having regard to the full scope of sustainability issues which have shaped the Minerals Core Strategy.

4 Whilst the criteria will be used to recommend the sites taken forward in the Minerals Site Allocations Document, the plan as a whole will be subject to a sustainability appraisal exercise in order to consider potential cumulative impacts.

5 The plan as a whole will be subject to Conservation Regulations Assessment (CRA) to examine possible effects on European sites. The sustainability appraisal and CRA are separate processes. Within Appendix 1, any reference to European sites should be taken to include Ramsar sites for the purposes of assessment, where relevant.

How the site selection criteria were derived

6 The site selection criteria have been developed with input from various stakeholders and specialists, such as the county ecologist and Environment Agency. Stakeholders also debated the criteria during a workshop session and many of the suggestions made were incorporated. The site selection criteria were further improved following consultations on the Minerals Core Strategy.

7 In developing the criteria, discussion on the grading system and the weighting of criteria took place. Various options were debated. It is considered that criteria incorporating more negative (red) than positive (green) elements is appropriate since the impacts of developing minerals sites are likely to be more negative than positive. The intention of the site selection criteria is to assess potential impacts and breaking down the negative impacts enables a finer split, a more useful assessment of impacts and therefore the identification of suitable mitigation.

46 The Scoping Report is available to view at: www.dorsetforyou.com/mwdf

8 The assessment of sites is, by its nature, a complex task that deserves in-depth consideration. If an assessment contains a ‘red’ or even a series of reds this does not indicate absolute constraints that will automatically rule the site out from further consideration. It will however indicate where further work is required to identify whether and how an impact can be mitigated. Such a qualitative approach is considered preferable to the suggested use of a quantitative scoring system. It provides a more reasoned assessment than assigning a numerical score.

9 The criteria have been developed in such a way as to be appropriate for all mineral types. Mineral type and its relevant importance will be noted at the beginning of each assessment. The assessment will be complemented by the strategy set out in the mineral specific chapter of the Minerals Core Strategy.

The Assessment

10 Every site brought forward for consideration in the future will be consistently tested against all the criteria. Each assessment will be carried out as follows and an individual assessment report produced.

General Description, to include:

a	map of the area and site boundary
b	mineral type
c	brief description of proposal and existing landuse
d	scale of development – output/reserve/life of site
e	restoration proposals
f	access and traffic generated by proposal

Deliverability

11 Questions of deliverability are intended to refer to whether a site can physically be put into operation, before potential impacts are considered through the criteria.

a	Is the site in conformity with the Minerals Core Strategy?
b	Is there geological evidence of the presence and viability of the mineral?
c	Are there any alternative uses to mineral extraction that have been identified, on the land, in other plans?
d	Is the site located within a preferred area in the existing Minerals and Waste Local Plan (1999)?

e	Does this conflict with plans/proposals of adjoining Mineral Planning Authorities?
f	Are there any issues of land ownership that could prevent development of the site in the plan period? For example covenants
g	What is the site's proximity to existing markets?
h	Is the site proposed as an extension to an existing site?
i	Has the site been considered in the past for minerals extraction?
j	Is there any other relevant planning history?
k	Is it possible to achieve acceptable restoration of the site?
l	Does the sequential test for flooding indicate that the site is appropriate for the proposed use?

The Detailed Assessment

12 The main section of the assessment will contain the reasoned written justification behind the consideration of each criterion. A colour will be awarded for that criterion with red highlighting the most severe impacts and green the least or even highlighting a positive impact from the proposed development.

13 The following points will be taken into consideration when assessing sites against the twenty five criteria:

- a. Both direct and indirect impacts
- b. Timescales – set out clearly if there are different long and short term effects.
- c. The need for a particular mineral type and its availability
- d. Mitigation measures – it is expected that the site promoter will identify how they propose to mitigate against impacts.
- e. Specialist views and expert advice, where relevant.

14 Where distances are included in criteria, these are intended to provide a guideline for assigning a score. However other factors which may increase or lessen the particular impact will also be taken into consideration. The criteria are not weighted. Although there are more criteria on the environment this simply reflects the range of aspects that need to be considered.

Overall Recommendations

15 After the assessment has been carried out there will be an overall recommendation as to whether the site proposal should be taken forward. In many cases there will still be issues that need further attention. This will be highlighted in this section with suggestions for further investigation. Where mitigation measures are required these can be set out in the Minerals Site Allocations Document to ensure that they are followed through to the application stage.

- 16** For proposals where mitigation of identified adverse impacts will not be possible, it is likely that those sites would not normally be progressed further.
- 17** Sites thought suitable will be recommended for identification in the Minerals Site Allocations Document and will be subject to approval of members of the councils. At this stage there will be opportunities for stakeholder consultation.
- 18** A number of sites for future minerals extraction emerged following a 'Call for Sites' during 2008. It is expected that more sites will be nominated in the future for consideration. Currently no sites have been subjected to the full site assessment as described above.
- 19** When work re-commences on the Minerals Site Allocations Document, a consistent assessment will be undertaken on all known sites to measure the relative impacts and produce a list of preferred sites whose inclusion within the document can be strongly and robustly defended. These preferred sites will be subject to Conservation Regulations Assessment and sustainability appraisal, to consider potential cumulative impacts.

The Site Selection Criteria

Below are the 25 site selection criteria which will be used to undertake the main body of the site assessments. Criteria 1 - 15 relate to environmental sustainability objectives, Criteria 16 relates to economic sustainability objectives and Criteria 17 - 25 relate to social sustainability objectives.

Site Selection Criterion C1

Does the proposal have any impact on international/European nature conservation designations?

The response to this criterion will identify whether there are possible linkages between the proposed mineral site and an SAC, SPA or Ramsar site. There are several ecological issues which are key factors that help to determine the likelihood of adverse effects of development on European sites. For aggregate and ball clay sites these are: hydrology, displacement of recreation, proximity, species, land management and site restoration. For Purbeck stone sites these are: dust and proximity.⁽⁴⁷⁾ The range of possible indirect mechanisms of impact should be considered.

Sites which are judged to have possible linkages through which European sites could be affected by mineral development should be subject to detailed assessment of those possible effects to determine their significance in light of the Conservation Regulations. Proposed working, restoration and mitigation will need to be taken into account.

The text may also explain how factors such as scale of extraction, type of mineral being extracted, direction of flow of groundwater and surface water, change in air quality and diversion of public access would affect the level of impact.

Should an assessment demonstrate that a site would adversely affect a European site, it would not be taken forward.

47 See Chapter 16, Biodiversity and Geological Conservation - paragraph 17.27 for a full explanation of potential effects

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> Site would have direct impacts on a SPA⁽⁴⁸⁾ (including proposed SPAs), SAC⁽⁴⁹⁾ (including candidate SAC) or Ramsar⁽⁵⁰⁾ site. Site would have indirect impacts on an SPA, SAC or Ramsar site, or is functionally linked to such a designated habitat.
B	<p>Significant adverse impact</p> <p><i>Not applicable - any effect on the integrity of an SPA, SAC or Ramsar site is categorised as 'A'</i></p>
C	<p>Less significant impact</p> <p><i>Not applicable - any effect on the integrity of an SPA, SAC or Ramsar site is categorised as 'A'</i></p>
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> Site has no possible pathway to international nature conservation designations
E	<p>Positive impact</p> <ul style="list-style-type: none"> Site has potential for strategic nature conservation gain and/or quiet recreation through restoration⁽⁵¹⁾

Site Selection Criterion C2

Does the proposal have an impact on areas used by Annex 1 Bird Species?

48 Special Protection Area - area of importance for the habitats of certain rare or vulnerable categories of birds or for regularly occurring migratory bird species, required to be designated and protected by member states under the European Community Directive on Wild Birds - 2009/147/EC. SPAs are taken to include proposed SPAs

49 Special Area of Conservation - a site designated under the EU Directive on the Conservation of Natural Habitats and of Wild Fauna and Flora as of special importance. SACs are taken to include candidate SAC

50 Ramsar Site - a wetland Site of Special Scientific Interest which is designated by Government as being of international importance

51 The Dorset Nature Map will be used to aid identification of the potential for site restoration to contribute to a strategic nature area

A decision made by the Secretary of State in 2011 has indicated that where there is a possibility that a site (or part of a site) would be recommended for classification as a Special Protection Area (SPA), a 'risk based approach' should be taken in its assessment. ⁽⁵²⁾ This possibility exists where a site is used regularly by more than 1% of the Great Britain population of a species listed on Annex 1 of the EC Birds Directive.

This means such a site should be assessed to consider whether there would be a likely significant effect on the bird population, as if it were a potential SPA. A 'shadow appropriate assessment' of the implications on the minerals development may therefore be required for sites which fall within the above definition. Such an assessment would need to take into consideration the scale, phasing, mitigation and restoration proposals as this may influence whether or not the bird population would be affected (by loss of habitat for example). The assessment would need to determine whether any potential impacts in this respect are capable of mitigation.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> Site currently contributes to an area which supports more than 1% of the Great Britain population of a species is listed on Annex 1 of the EC Birds Directive outside of an existing designated or proposed SPA.
B	<p>Significant adverse impact</p> <p><i>Not applicable - site will be classed as either supporting more than 1% of relevant species or not</i></p>
C	<p>Less significant impact</p> <p><i>Not applicable - site will be classed as either supporting more than 1% of relevant species or not</i></p>
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> Site is not used by more than 1% of the Great Britain population of a species is listed on Annex 1 of the EC Birds Directive
E	<p>Positive impact</p> <ul style="list-style-type: none"> Site has potential for strategic nature conservation gain through potential to create habitat for Annex 1 Bird species.

52 See: Town and Country Planning Act 1990 – Section 77. Application by VEOLIA ES Nottinghamshire Ltd. Land at former Rufford Colliery, Rainworth, Nottinghamshire NG21 0ET. Application Ref: 3/07/01793/CMW

Site Selection Criterion C3

Does the proposal have any impact on national designations for nature conservation?

The response to this criterion will be mainly factual, however the text may also explain how other factors (such as scale of extraction, type of mineral being extracted, direction of flow of groundwater and surface water, change in air quality, diversion of public access) would determine the level of impact. Proposed working, restoration and mitigation will also need to be taken into account.

The written explanation should also clarify the reason for the designation as this will be important in the assessment of likely impacts.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> • Site contains or has potential for direct or indirect effects ⁽⁵³⁾ on a Site of Special Scientific Interest (SSSI⁽⁵⁴⁾); and • Full mitigation of effects is not possible, resulting in significant residual loss of biodiversity.
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> • Site contains or has potential for direct or indirect effects on a Site of Special Scientific Interest (SSSI); and • Full mitigation of effects is possible, and there would be no significant residual loss of biodiversity.
C	<p>Less significant impact</p> <ul style="list-style-type: none"> • Site supports species of a designated site
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> • Site contains no national nature conservation designations
E	<p>Positive impact</p> <ul style="list-style-type: none"> • Site has potential for strategic nature conservation gain through restoration

Site Selection Criterion C4

Does the proposal have any impact on protected species?

53 Possible mechanisms of indirect effects include: hydrology; disturbance through noise, dust and lighting due to proximity; impacts on characteristic species; and impacts on the management of designated sites

54 Although a SSSI is designated at a national level (by Natural England), it may be designated on the basis of its national or regional significance. Either would be considered under this criterion.

Again, while the response to this criterion will be mainly factual, the text may also explain how other factors (such as scale of extraction, type of mineral being extracted, direction of flow of groundwater and surface water, change in air quality, diversion of public access) would determine the level of impact. Proposed working, restoration and mitigation will also need to be taken into account.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> • Site is known to support European Protected Species
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> • European Protected Species, or uncommon UK protected species, are known to inhabit the area immediately adjacent to the site
C	<p>Less significant impact</p> <ul style="list-style-type: none"> • European Protected Species, or uncommon UK protected species, are known to inhabit an area within 500m of the site and/or the site may provide habitat important for the species' conservation; the site may support substantial populations of common protected species with little opportunity for adequate mitigation of habitat loss
D	<p>No significant impact or negligible impact</p> <ul style="list-style-type: none"> • Site supports common protected species with significant opportunity for mitigation to maintain their local conservation status
E	<p>Positive impact</p> <ul style="list-style-type: none"> • Site has potential for enhancement of protected species populations through restoration.

Site Selection Criterion C5

Does the proposal have any impact on local recognitions/designations, including ancient woodland and veteran trees?

The response to this criterion will be mainly factual. However, the text will explain what the important feature is and how factors such as scale of extraction and type of mineral being extracted would determine the level of adverse impact. Proposed working, restoration and mitigation will also need to be taken into account. Non-designated features of local importance will be considered in the written explanation alongside those that are designated.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> • Site contains or has potential for direct or indirect impacts on a Site of Nature Conservation Interest (SNCI) or Local Nature Reserve (LNR); or other features of importance for wildlife and geology in the landscape, e.g.
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A	<p>ancient woodland, veteran trees, ponds; or UK BAP species or habitats or Red and Amber listed birds⁽⁵⁵⁾; and</p> <ul style="list-style-type: none"> • Full mitigation of effects is not possible, resulting in significant residual loss of biodiversity.
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> • Site contains or has potential for direct or indirect impacts on a Site of Nature Conservation Interest (SNCI) or Local Nature Reserve (LNR); or other features of importance for wildlife and geology in the landscape, e.g. ancient woodland, veteran trees, ponds; or UK BAP species or habitats or Red and Amber listed birds; and • Full mitigation of effects is possible, and there would be no significant loss of biodiversity.
C	<p>Less significant impact</p> <ul style="list-style-type: none"> • Site supports species and habitats of a locally designated site, or other features of importance for wildlife in the landscape
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> • Site contains no local significant features of importance for wildlife
E	<p>Positive impact</p> <ul style="list-style-type: none"> • Site has potential for nature conservation gain through restoration, especially to recreate landform to support UK BAP species and habitats

Site Selection Criterion C6

Does the proposal have any impact on geodiversity?

The response to this criterion will be based on expertise provided by the DCC Earth Science team and/or information from the Local Geodiversity Action Plan. The text will explain what the important feature is and how factors such as scale of extraction and type of mineral being extracted would determine the level of adverse impact. Proposed working, restoration and mitigation will also need to be taken into account.

A	Very significant adverse impact
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55 See: Birds of Conservation Concern (RSPB 2009)

A	<ul style="list-style-type: none"> Site would adversely affect the outstanding universal value of the Dorset to East Devon Coast World Heritage Site or in the loss of or damage to an important geological exposure or feature of interest
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> Site would have a detrimental impact on a RIGS or Geological SSSI, or on the setting of the Dorset to East Devon Coast World Heritage Site.
C	<p>Less significant impact</p> <ul style="list-style-type: none"> Site would have no direct impact on the conservation of geological exposures
D	<p>No significant impact/negligible</p> <ul style="list-style-type: none"> Site contains no significant features of importance for geology in the landscape
E	<p>Positive impact</p> <ul style="list-style-type: none"> Site has potential for enhancement by the creation of new exposures within important geological sequences.

Site Selection Criterion C7

Does the proposal have any impact on designated landscapes?

Although the response to this criterion will be mainly factual in terms of distance from the designation, the text will also explain that proximity of the site to a designation is not a good enough indicator alone. It will explain how detailed assessment will be required to determine site specific impacts and emphasise that a range of other factors relating to topography and land cover may mitigate or exacerbate the impact of development as would the sensitivity of the landscape resource and/or viewpoints affected. The scale of excavation, type of mineral and mitigation proposed are also critical factors to be taken into account.

A	<p>Very Significant adverse impact</p> <ul style="list-style-type: none"> Site is within an Area of Outstanding Natural Beauty (AONB), Heritage Coast and/or World Heritage Site
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> Site is immediately adjacent to or likely to impact on the setting of Area of Outstanding Natural Beauty, World Heritage Site, Heritage Coast and/or National Park
C	<p>Less significant impact</p> <ul style="list-style-type: none"> Potential for limited impact on setting of AONB, Heritage Coast, World Heritage Site and/or National Park

D	<p>No significant impact/negligible</p> <ul style="list-style-type: none"> No impact on AONB, Heritage Coast, World Heritage Site and/or National Park and their settings
E	<p>Positive impact</p> <ul style="list-style-type: none"> Proposal provides an opportunity to enhance landscape character within AONB, Heritage Coast or National Park

Site Selection Criterion C8

What is the landscape capacity to accommodate the site?

Landscape capacity refers to the ability of the landscape to accommodate development, in this case minerals development. The colour grading given to this question will be derived directly from a landscape and visual assessment commissioned by Dorset County Council and carried out by consultants ⁽⁵⁶⁾ in Summer 2009. The results of the assessment are based on consideration of landscape character sensitivity, landscape value (taking account of any designations) and visual sensitivity. Reaching conclusions about capacity means making a judgement about whether the amount of change proposed can be accommodated without having unacceptable adverse effects on the character of the landscape and without compromising the values attached to it.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> Landscape capacity to accommodate the site is low.
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> Landscape capacity to accommodate the site is between low and medium
C	<p>Less significant impact</p> <ul style="list-style-type: none"> Landscape capacity to accommodate the site is medium
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> Landscape capacity to accommodate the site is between medium and high
E	<p>Positive impact</p> <ul style="list-style-type: none"> Landscape capacity to accommodate the site is high and/or there is the potential for an improvement to the landscape

Site Selection Criterion C9

Does the proposal have any impact on historic landscapes?

Consideration will be given to the nature and location of the proposed development in relation to historic feature(s) in the vicinity and what constitutes its/their setting. The setting does not simply mean whether the feature can be seen from the development - views from other positions must also be considered. Whether the development can be seen, heard, felt or smelt from the historic site/feature will all be factors in determining the colour grading given. This criterion will not just include designated landscapes but will also refer to the significance of the historic landscape, as informed by the emerging study on Historic Landscape Characterisation.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> • Site contains a Grade I Registered Park or Garden, Historic Landscape Character of national importance or a Conservation Area
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> • Site provides the setting to a Grade I Registered Park or Garden or Historic Landscape Character of national importance or a Conservation Area • Site contains a Grade II* or Grade II Registered Park or Garden or seriously affects its setting • Site is within a significant undesignated historic landscape
C	<p>Less significant impact</p> <ul style="list-style-type: none"> • Site would result in a time-limited impact on the setting of a Registered Park or Garden or Conservation Area • Site is in the vicinity of a significant undesignated historic landscape and would affect its setting
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> • Site is not considered to have any identified historic landscape constraint
E	<p>Positive impact</p> <ul style="list-style-type: none"> • Provides an opportunity to enhance existing features

Site Selection Criterion C10

Does the proposal have any impact on historic buildings?

Consideration will be given here to the nature and location of the development in relation to any listed buildings and historic infrastructure, together with what constitutes the setting of the building(s). The setting does not simply mean whether the building can be seen from the development – again, views from a number of locations must be assessed. Whether the development can be seen, heard, felt or smelt from the protected site will also be relevant in determining the colour grading given.

A	Very significant adverse impact
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A	<ul style="list-style-type: none"> Site contains a Grade I Listed Building or seriously affects its setting
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> Site contains a Grade II* or II listed building or seriously affects its setting
C	<p>Less significant impact</p> <ul style="list-style-type: none"> Site would result in a time-limited impact on the setting of a listed building.
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> Site is not considered to have any identified historic building constraint
E	<p>Positive impact</p> <ul style="list-style-type: none"> Proposal provides an opportunity to enhance existing historic buildings or their settings and/or proposal provides material required for repair of historic buildings

Site Selection Criterion C11

Does the proposal have any impact on archaeology?

The presence (or likely presence) of archaeology within the site together with its significance will be explained, along with its setting (see explanation of setting above). This will include consideration of both designated archaeology and locally important archaeology, including industrial. Any opportunities for mitigation will also be considered in order to determine the appropriate colour grading.

A desk-based assessment of the presence of and/or potential for archaeology within the site would be requested from a site promoter where necessary. The presence of and impacts on undesignated archaeological interest can however only be fully determined through a pre-application evaluation (and if necessary further appropriate investigations).

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> Site contains a nationally important archaeological site such as a Scheduled Monument, or seriously affects the setting of such a Monument
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> Site comprises or includes the setting of a Scheduled Monument or contains known archaeological sites
C	<p>Less significant impact</p> <ul style="list-style-type: none"> Site contains known archaeological sites, or has high archaeological potential but there is an opportunity to avoid unacceptable impact. Impacts may be temporary.
D	<p>No significant or negligible impact</p>

	<ul style="list-style-type: none"> Site contains no known archaeological sites.
E	<p>Positive impact</p> <ul style="list-style-type: none"> The proposed development can in some way enhance or benefit existing archaeological features or their settings

Site Selection Criterion C12

Does the proposal have any impact on hydrogeology or groundwater?

At this stage impacts on hydrology and hydrogeology are assessed through the location of the proposed development in relation to the Source Protection Zones (SPZs) defined by the Environment Agency. More detailed hydrogeological assessment will be required if the site is in an SPZ or where it is in the vicinity of licensed and unlicensed water supplies or any other water features that could be impacted by mineral workings, such as the impacts from groundwater dewatering or 'wet-working' methods. The direction/flow of groundwater should also be noted. Consideration should also be given to the potential impacts of minerals extraction in terms on groundwater quality. The Environment Agency will have input into this aspect of the assessment of site proposals.

Impacts on hydrology could potentially impact protected habitats and this will be considered under criteria C1, C2 and C4.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> Site is completely or partially within SPZ 1 or within the default 50m protection radius for a licensed/unlicensed water supply or within 50m of any other groundwater dependent features.
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> Site within SPZ 2 or within 250m of a licensed/unlicensed water supply or any other groundwater dependent feature, or on a principal aquifer.
C	<p>Less significant impact</p> <ul style="list-style-type: none"> Site within SPZ 3 or within 500m of a licensed/unlicensed water supply or any other groundwater dependent features, or on a secondary aquifer.
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> Site overlies 'unproductive strata' and there are no water interests or any other groundwater dependent features within 500m of site boundary. Site does not overlie an SPZ.
E	<p>Positive impact</p> <ul style="list-style-type: none"> Opportunity to improve/protect groundwater.

Site Selection Criterion C13

Does the proposal have any impact on surface waters?

Surface waters are defined as rivers, streams, ditches, wetlands (e.g. ponds and reedbeds) and coastal waters. Main rivers are regulated by the Environment Agency. As above, the Environment Agency will contribute to this aspect of the assessment.

Consideration should also be given to the potential impacts of minerals extraction in terms of contamination on agriculture and food production areas downstream and nearby. Impacts on surface water could potentially impact protected habitats and this will be considered under criteria C1, C2 and C4.

A	Very significant adverse impact <ul style="list-style-type: none"> • Surface water located within the site proposal, or within 50m of site boundary
B	Significant adverse impact <ul style="list-style-type: none"> • Surface water within 250m of site boundary
C	Less significant impact <ul style="list-style-type: none"> • Surface water within 500m of site boundary
D	No significant or negligible impact <ul style="list-style-type: none"> • No surface water within 500m of site boundary
E	Positive impact <ul style="list-style-type: none"> • Opportunity to create or enhance water interests off or on the site.

Site Selection Criterion C14

Does the proposal have any impact on flooding or coastal stability?

Dorset County Council is required to carry out a Strategic Flood Risk Assessment (SFRA) of the county. The SFRA flood zones which take into account climate change shall be used in the assessment. When complete, it will inform the colour grading attributed to any proposal from this assessment. Site specific Flood Risk Assessments (FRAs), where produced, will also be relevant. Factual details will be recorded and the Environment Agency will be asked to comment on likelihood of flood risk/impact. If a site requires grading as red or amber, a level 2 Strategic Flood Risk Assessment will be necessary prior to advancing the allocation. It is expected that site specific FRAs would be required for most minerals proposals, including all those with an area of more than 1ha and in Flood Risk Zone (FRZ) 1.

Where sites are located relatively close to the coast there will also be the need to consider issues of coastal stability. Shoreline Management Plans are overall strategies for the future management of the coastline and these should be considered where they are in existence. Coastal Change Management Areas identified by Local Planning Authorities should be referenced where relevant.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> • Site (excluding sand and gravel site) and all processing plant is at risk of flooding or it poses an increased flood risk as it is located wholly within FRZ 2 and 3, or in an area with a history of groundwater flooding. • Site is at significant risk from coastal instability
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> • Site (excluding sand and gravel site) and all processing plant is proposed to be partially located with FRZ 2 and 3, or in an area with a history of groundwater flooding. • Development would conflict with proposals in shoreline management plan or coastal change management area
C	<p>Less significant impact</p> <ul style="list-style-type: none"> • Site (excluding sand and gravel site) and processing plant is proposed to be located immediately adjacent to FRZ 2 and 3, or is in an area with a history of groundwater flooding.
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> • Sand and gravel site (excluding all ancillary processing plant etc) located within FRZ 1, 2 or 3 or in an area with a history of groundwater flooding. All other forms of extraction in FRZ 1.
E	<p>Positive impact</p> <ul style="list-style-type: none"> • Site and processing plant is not located within FRZ or floodplain and/or site offers potential to be restored to act as a reservoir to reduce flood risk elsewhere.

Site Selection Criterion C15

Does the proposal have any impact on existing soils or land type?

This criterion considers potential impacts on a combination of land use, designations and underlying soil type/quality. These are not of over-riding importance, as in many cases it is possible to completely reinstate the site to its pre-mineral development use. However, it is useful to be aware of the extent to which a proposed development will impact on these factors. The possibility that the proposed development will have a positive impact and will contribute to the remediation of soil contamination is also covered in this criterion. Best and Most

Versatile Land is land defined as grades 1,2, and 3a of the Agricultural Land Classification. Further information about the actual land use and soil type may be included in the overall summary of any site proposal.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> Extensive permanent loss and/or destruction of soil and/or permanent loss of best and most versatile agricultural land
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> Site would result in a reduction in the quality of soils or best and most versatile land and/or site is located within greenfield land or an Environmentally Sensitive Area (ESA) and/or Village Green or Common Land
C	<p>Less significant impact</p> <ul style="list-style-type: none"> Good quality land will be affected, but restoration would return the land to equal soil quality and/or land grading
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> Site is poor quality agricultural land or forestry
E	<p>Positive impact</p> <ul style="list-style-type: none"> Site is contaminated and remediation or other improvement is economically viable via proposed development.

Site Selection Criterion C16

Does the proposal have any impact on Air Quality Management Areas (AQMAs)?

Air quality in this context refers specifically to potential impacts of proposed minerals development on designated AQMAs and does not consider the impacts of dust produced as a result of mineral development. The expectation is that dust will be controlled through conditions and other measures applied during the planning application process. Dust is also referred to under criterion C18.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> Significant increase in traffic levels leading to a decrease in air quality within an AQMA
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> Increase in traffic levels leading to a decrease in air quality immediately adjacent to and up-wind of an AQMA
C	<p>Less significant impact</p>

	<ul style="list-style-type: none"> Site is immediately adjacent to but not up-wind of an AQMA and/or there are likely to be minimal/no increases in traffic levels
D	No significant or negligible impact <ul style="list-style-type: none"> No AQMA would be affected
E	Positive impact <ul style="list-style-type: none"> Site offers opportunities to remediate existing air quality issues (e.g. planting trees)

Site Selection Criterion C17

Does the proposal have any impact on economic development?

The contributions minerals make to the national economy are noted throughout the Minerals Core Strategy, in particular in relation to Portland Stone, Purbeck Stone, ball clay and hydrocarbons. The need for their continued provision (and that of other minerals needed by society) is established throughout the Minerals Core Strategy and so will not be reconsidered here.

In order to assess the economic contribution of a minerals proposal locally, an assessment will be made as to the level of employment that would be created. This will include consideration of whether the proposal would maintain existing employment (for example if it comprises a site extension or a replacement site for a company within the area) or whether employment levels would be increased. Consideration will also be given to whether the proposed site would have a negative impact on the local economy of the vicinity.

A	Very significant adverse impact <ul style="list-style-type: none"> Site would result in permanent loss of significant employment in the surrounding area as a result of working the minerals which would not be replaced through employment opportunities from mineral working
B	Significant adverse impact <ul style="list-style-type: none"> Site may result in long-term reduction in employment in the surrounding area as a result of working the minerals
C	Less significant impact <ul style="list-style-type: none"> Site may result in reduction in employment in the surrounding area as a result of working the minerals
D	No significant impact/negligible <ul style="list-style-type: none"> Site maintains or creates employment opportunities
E	Positive impact

- New site that creates significant employment opportunities

Site Selection Criterion C18

Does the proposal have any impact on Sensitive Human Receptors?

Sensitive human receptors are places where people may be affected by minerals developments and for the purposes of the assessment include, but are not limited to, residential areas, dwellings, schools, churches, visitor/tourist attractions, recreational areas, hospitals, hospices, travellers sites, cemeteries and prisons.

A description of the sensitive human receptors that may be affected and how, together with a description of the existing natural environment and ways in which the details of the development may reduce adverse impacts, will be given. For example if the extraction is shallow and the site would be worked progressively the impact on the sensitive human receptors may only be for a very short period. Mitigation will also be considered before a colour grading is given. Factors such as prevailing wind direction and existing physical features will be taken into consideration. Noise, dust, lighting and impacts on amenity, including impacts from lorry traffic, will be included here, as well as any physical features such as spoil heaps that may create a visual impact on sensitive human receptors. A positive benefit could include a beneficial restoration for the local community or a benefit through planning obligations.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> • Site proposal is adjacent to/upwind of a sensitive receptor, with no natural screening
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> • Site proposal is adjacent to sensitive receptor (wind direction, screening, mitigation to be considered as well)
C	<p>Less significant impact</p> <ul style="list-style-type: none"> • Site proposal is within 250m of sensitive receptor (wind direction, screening, mitigation to be considered as well)
D	<p>No significant impact/negligible</p> <ul style="list-style-type: none"> • Site proposal is within 500m of sensitive receptor (wind direction, screening, mitigation to be considered as well)
E	<p>Positive impact</p> <ul style="list-style-type: none"> • Site proposal is away from sensitive receptors (wind direction, screening, mitigation to be considered as well) or proposal offers positive benefit to relevant sensitive receptor

Site Selection Criterion C19

Does the proposal have any impact on existing settlements?

The location of the settlement will be explained and any factors deemed important will also be set out and taken into consideration before a colour grading is given. Factors that will be taken into account include: whether there are natural barriers between the settlement and proposed site that would minimise impact (e.g. a major road, tree screening); whether mitigation (e.g. establishment of buffers, bunding, screening, working methods to reduce noise etc) would be able to overcome potential impacts; whether or not lorries will need to travel through or by settlements to access the site; and the frequency of lorry movements through settlements.

A	Very significant adverse impact <ul style="list-style-type: none"> • Site proposal is adjacent to/upwind of a settlement, with no natural screening
B	Significant adverse impact <ul style="list-style-type: none"> • Site proposal is adjacent to settlement (wind direction, screening, mitigation to be considered)
C	Less significant impact <ul style="list-style-type: none"> • Site proposal is within 250m of a settlement (wind direction, screening, mitigation to be considered)
D	No significant impact/negligible <ul style="list-style-type: none"> • Site proposal is within 500m of a settlement (wind direction, screening, mitigation to be considered)
E	Positive impact <ul style="list-style-type: none"> • Site proposal is away from settlements (wind direction, screening, mitigation to be considered as well) or proposal offers positive benefit to a settlement

Site Selection Criterion C20

Does the proposal have any impact on airport safety?

The proposed approach to working the site i.e. dry or wet working together with restoration and afteruse will be key considerations to be explained and considered prior to reaching a colour grading for this criterion. The cumulative effect of a site with neighbouring sites in the attraction for birds will need to be considered.

A	Very significant adverse impact
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A	<ul style="list-style-type: none"> Site proposed for wet-working/wetland restoration and contained within the 13km safeguarding consultation zone
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> Site located adjacent (within 3km) to or within 3km of the 13km safeguarding consultation zone and proposed for wet working/wetland restoration
C	<p>Less significant impact</p> <ul style="list-style-type: none"> Site within 8km of aerodrome but not proposed for wet working/wetland restoration or site between 16km and 30km of aerodrome and proposed for wet working/wetland restoration
D	<p>No significant impact/negligible</p> <ul style="list-style-type: none"> Site within or adjacent (within 3km) of 13km safeguarding consultation zone but not proposed for wet working
E	<p>Positive impact</p> <ul style="list-style-type: none"> Site not located near to or adjacent to aerodrome safeguarding consultation zone

Site Selection Criterion C21

Does the proposal have any effect on cumulative impacts?

Assessment of cumulative impacts is intended to give an impression of the impacts of not just the proposed minerals development but other minerals development in the vicinity, together with any other existing or proposed built development of a significant size. The latter could include larger scale housing or office/industrial development, which will generate significant volumes of traffic.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> Proposed site is a new site or an extension to an existing site, in an area where there is other mineral working OR other large scale built development within 5 km, and the proposed site extension will represent an intensification of the development
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> Proposed site is a new site or an extension to an existing site, in an area where there is other mineral working OR other large scale built development within 5 km
C	<p>Less significant impact</p> <ul style="list-style-type: none"> Proposed site is an extension to an existing site – no other mineral working OR other large scale built development within 5km

D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> No net increase in impacts due to minerals development – any impacts of additional development offset by reduction in other development within 5km
E	<p>Positive impact</p> <ul style="list-style-type: none"> Further mineral working would provide opportunities for benefits such as improvements to infrastructure.

Site Selection Criterion C22

Does the proposal have any impact on carbon emissions?

One of the primary impacts of minerals extraction related to the generation of carbon emissions is transportation of the mineral from the quarry to its market. An explanation of the existing land use and likely markets for the mineral extraction will be provided in order to determine the correct colour grading.

In addition, it is acknowledged that there is more to carbon emissions than purely transport issues. Explanatory text should also cover broader issues such as energy usage and sustainable construction methods where it is not possible to have specific criteria.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> Site would result in significant permanent loss of vegetation
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> Material would be transported by road
C	<p>Less significant impact</p> <ul style="list-style-type: none"> Site would use conveyors or other sustainable means of transportation
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> Site is adjacent to wharf (loose or container) and/or rail depot or site has potential for access to rail depot and/or wharf facilities
E	<p>Positive impact</p> <ul style="list-style-type: none"> Site includes established rail depot and/or wharf for use as part of the proposed development Site makes provision for carbon offsetting off site or through restoration

Site Selection Criterion C23

Does the proposal have any impact on recreational land?

The current function/use of the land, available alternatives and restoration proposed will be considered and explained before reaching a decision on the colour grading to be given under this criterion. The potential impacts if mineral working would lead to displacement of existing recreational activity onto nearby sensitive heathlands will also be an important consideration as this would constitute a significant or very significant adverse impact.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> • Significant loss of recreational land with no opportunity for replacement, during or after development
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> • Significant loss of recreational land but with opportunity for replacement, to a similar or improved state, after development
C	<p>Less significant impact</p> <ul style="list-style-type: none"> • Loss of formal or informal recreational land with alternative, of a similar or improved state, available during and after development
D	<p>No significant or negligible impact</p> <ul style="list-style-type: none"> • Site has no formal or informal recreational or access use
E	<p>Positive impact</p> <ul style="list-style-type: none"> • Opportunity to create a new public recreational area or contribute to green infrastructure of proven need

Site Selection Criterion C24

Does the proposal have any impact on public rights of way?

The location of any statutory public rights of way (PRoW) such as footpaths or bridleways which cross or are otherwise affected by a proposal will be set out, together with the expected necessity to stop or temporarily/permanently divert these routes. Where possible the importance of the route and usage will be explained and considered.

A	<p>Very significant adverse impact</p> <ul style="list-style-type: none"> • Major diversion (temporary or permanent) of a significant right of way such as a National Trail or cycle route
B	<p>Significant adverse impact</p> <ul style="list-style-type: none"> • Site includes public right of way or formal public access land – diversion or other alternative arrangements (temporary or permanent) required
C	<p>Less significant impact</p> <ul style="list-style-type: none"> • Site is adjacent to public right of way

D	No significant or negligible impact <ul style="list-style-type: none"> • No public rights of way affected
E	Positive impact <ul style="list-style-type: none"> • Opportunity to create or enhance public rights of way

Site Selection Criterion C25

Are the access proposals acceptable?

A factual explanation of the location of the development in relation to the strategic highway network will be included. Suitable connecting routes to the development should be identified considering highway safety, carriageway geometry, highway capacity and possible amenity impact.

Roads considered unsuitable might include residential streets, single track roads, remote country lanes, roads passing schools or roads subject to significant congestion. Cumulative impacts should also be considered.

Proposed mitigation measures, such as highway improvements, HGV routing strategies, etc, will be considered. In all instances, highway safety shall be the prime consideration. Existing (where applicable) and proposed HGV movements will be considered, along with other relevant information which may be requested in line with Department for Transport requirements for Transport Statements.

Dorset County Council transport development management engineers will contribute to this aspect of the assessment.

A	Very significant adverse impact <ul style="list-style-type: none"> • Development poses infrastructure constraints that are unlikely to be able to be overcome.
B	Significant adverse impact <ul style="list-style-type: none"> • Unsuitable and/or poor quality connecting roads provide link to the site and/or HGVs passing directly through existing settlement and/or poor access.
C	Less significant impact <ul style="list-style-type: none"> • Site has good access and suitable connecting roads.
D	No significant or negligible adverse impacts <ul style="list-style-type: none"> • Safe access directly onto the strategic highway network with no requirement for connecting roads or HGVs to travel through existing settlements.

E

In itself development is unlikely to have positive impact however highway improvements required to mitigate impacts can result in benefits overall.

Appendix 2: Programme of Replacement of Saved Policies

Appendix 2: Programme of Replacement of Saved Policies

Saved Policies are those in the Minerals and Waste Local Plan (1999) and Waste Local Plan (2006) contained in the Secretary of State’s Schedules of Saved Policies under the provisions of the Planning and Compulsory Purchase Act 2004 (as amended).

Minerals & Waste Local Plan 1999		Policy to be superseded ⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
01- Consideration of Applications for M&W waste facilities	MPA stance on application determination taking into account objectives of sustainable development, with applications in AONB & environmental designations subject to rigorous investigation.	Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction
02 - Restoration	MPA stance on application determination taking into account objectives of sustainable development, and employing a progressive restoration strategy.	Minerals Core Strategy: RS1 Restoration, Aftercare, and Afteruse of Minerals Development
		Minerals Core Strategy: RS2 Retention of Plant, Machinery and other ancillary development
03 - Practicability of working methods	MPA stance on application determination taking into account objectives of sustainable development, and ensuring financial	Minerals Core Strategy: RS1 Restoration, Aftercare, and Afteruse of Minerals Development

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Minerals & Waste Local Plan 1999		Policy to be superseded⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
	commitments for restoration and afteruse of the site can be satisfactorily demonstrated.	
04 - Seeking Bonds or Financial guarantees	Provision for the MPA to seek financial guarantees from applicants to ensure funding for restoration/aftercare	Minerals Core Strategy: RS1 Restoration, Aftercare, and Afteruse of Minerals Development (Financial provision)
05 - Relating to applications within Preferred Areas (Minerals)	Criteria for assessing applications for Sand & gravel, ball clay, and Purbeck Stone in locations within preferred areas, to identify measures to alleviate environmental effects and safeguard local amenity, especially within areas of high environmental sensitivity.	Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction
06 - Relating to applications outside the Preferred Areas	Criteria for assessing applications for Sand & gravel, ball clay, and Purbeck Stone in locations outside preferred areas, to ensure that applications provide an assessment that the need for the development outweighs other considerations.	Minerals Core Strategy: SS1 Identification of sites in the Mineral Sites Allocation Document
		Minerals Core Strategy: PK2 Consideration for Purbeck Stone Proposals

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Minerals & Waste Local Plan 1999		Policy to be superseded ⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
		Minerals Core Strategy: BC1 Provision of Ball Clay
		Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction
		Mineral Site Allocations Document
07 - Safeguarding Resources & Facilities	To prevent sterilisation of minerals for future generations and to ensure that housing and sensitive land use does not encroach upon existing or potential mineral developments.	Minerals Core Strategy: SG1 Mineral Safeguarding Area
		Minerals Core Strategy: SG2 Mineral Consultation Area
		Minerals Core Strategy: SG3 Safeguarding of Mineral Sites and Facilities
08 - Exploration	Criteria for minerals exploration work is set out, when no permitted development rights exist	Minerals Core Strategy

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Minerals & Waste Local Plan 1999		Policy to be superseded ⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
	(within GPDO). The importance of pre-application discussions is confirmed.	
09 - Ancillary development	Criteria for ancillary development at minerals' sites are set out, when no permitted development rights exist (within GPDO). The importance of pre-application discussions is confirmed.	Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction
10 - Transport	Criteria for road-borne transportation of mineral, taking consideration of residential amenity and environmental factors.	Minerals Core Strategy: AS4 Wharves and Depots
		Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction
11 - Transport	Criteria for use of haulage operator transportation of mineral by road, where no alternative transportation exists, and including possible s.106 contributions to highway infrastructure.	Minerals Core Strategy: DM8 Transport and Minerals Development

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Minerals & Waste Local Plan 1999		Policy to be superseded ⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
12 - Negotiated Improvements - operating sites	Criteria for environmental improvements through negotiation for operational sites	Minerals Core Strategy: DM11 Review of Old Mineral Planning Permissions
13 - Negotiated improvements - inactive sites	Criteria for environmental improvements through negotiation for dormant sites	Minerals Core Strategy
14 - Negotiated improvements - related land and cumulative impact	Criteria for environmental improvements through negotiation for new sites - cumulative impacts with adjacent disturbed land	Minerals Core Strategy: DM11 Review of Old Mineral Planning Permissions
15 - Preferred areas for sand and gravel	Criteria for Aggregate site permissions within preferred areas	Mineral Site Allocations Document
16 - Applications for the winning and working of gravel outside Preferred Areas	Criteria for special permission for aggregate site permissions outside preferred areas	Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction
		Minerals Core Strategy: AS1 Provision of Sand and Gravel

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Minerals & Waste Local Plan 1999		Policy to be superseded ⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
		Mineral Site Allocations Document
17 - Limited extensions to sand and gravel sites	Criteria for small scale extensions to existing aggregate site permissions	Minerals Core Strategy: AS1 Provision of Sand and Gravel
		Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction
18 - Borrow Pits	Criteria for permissions for borrow pits	Minerals Core Strategy: AS5 Borrow Pits
19 - Sand & Gravel Landbanks	Release of land to maintain landbanks for construction sand and for gravel	Minerals Core Strategy: AS2 Landbank provision
20 - Crushed Rock Landbanks	Criteria for crushed rock permissions in relation to the landbank	Minerals Core Strategy: AS3 Crushed Rock
21 - Alternative sources of aggregate	Criteria for permitting alternative aggregate to land-won (sea dredged, sea borne, rail borne, recycled)	Minerals Core Strategy: RE1 Production of Recycled Aggregates
		Minerals Core Strategy: AS4

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Minerals & Waste Local Plan 1999		Policy to be superseded ⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
		Wharves and Depots
22 - Aggregate import facilities	Criteria for permitting marine aggregate wharves & short haul imports from neighbouring authorities	Minerals Core Strategy: AS4 Wharves and Depots
24 - Portland Stone - Presumption against new quarries on Portland	No new quarries unless environmental improvements would be achieved	Minerals Core Strategy: PD2 Surface Quarrying of Portland Stone
25 - Portland Stone - Voluntary environmental improvements on Portland	Criteria for reduction in environmental impact from existing quarries, and seeking improvements through s.106s	Minerals Core Strategy: PD4 Minimising Impacts of Existing Permissions on Portland
29 - Portland Stone - Restoration standards on Portland	Criteria for standards of restoration of Portland quarries with beneficial afteruse	Minerals Core Strategy: PD5 Restoration of Sites on Portland
		Minerals Core Strategy: RS1 Restoration, Aftercare and Afteruse of Minerals Development
30 - Purbeck Stone - Presumption in favour of extraction in Preferred Areas	Criteria for permission for new Purbeck quarries (in preferred areas)	Minerals Core Strategy: PK2 Considerations for Purbeck Stone Proposals

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Minerals & Waste Local Plan 1999		Policy to be superseded ⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
		Mineral Site Allocations Document
31 - Purbeck Stone - Presumption against extraction outside preferred areas	Criteria for permission for new Purbeck quarries outside preferred areas	Minerals Core Strategy: PK2 Considerations for Purbeck Stone Proposals
		Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction
32 - Purbeck Stone - Discouragement of non-traditional uses	No crushing of Purbeck stone for aggregate/fill - traditional use of stone only	Minerals Core Strategy: PK4 Crushing of Purbeck Stone at Dimension Stone Quarries
33 - Purbeck Stone - Imposition of conditions	Reduction of visual intrusion of processing facilities at Purbeck Stone quarries & restoration of sites	Minerals Core Strategy: PK2 Consideration for Purbeck Stone Proposals
34 - Purbeck Stone - Other building stones	Criteria for permission of blockstone (not Portland/Purbeck stone)	Minerals Core Strategy: BS1 Building Stone Quarries
35 - Ball Clay - Presumption in favour of applications within preferred areas	Criteria for ball clay permissions within preferred areas	Mineral Site Allocations Document

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Minerals & Waste Local Plan 1999		Policy to be superseded ⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
36 - Ball clay - Applications within areas of search	Criteria for ball clay exploration within areas of search	Minerals Core Strategy: BC1 Provision of Ball Clay
37 - Ball Clay - applications within the AONB & outside the preferred areas	Criteria for ball clay permissions within AONB & specific preferred areas	Minerals Core Strategy: BC1 Provision of Ball Clay
		Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction
38 - Ball Clay - Use of ball clay in high quality end uses	High quality ball clay extraction criteria	Minerals Core Strategy.
60 - Restoration - Consideration of applications	Criteria for permitting extensions or changes to existing sites within the Puddletown Road area	Minerals Core Strategy: AS1 Provision of Sand and Gravel
		Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction
62 - Restoration - Applications on land outside preferred areas	Criteria for permitting new mineral or waste operations outside the preferred areas within the Puddletown Road policy area	Minerals Core Strategy: AS1 Provision of Sand and Gravel
		Minerals Core Strategy: DM1-10

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Minerals & Waste Local Plan 1999		Policy to be superseded⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
		Management of Operational Impacts related to Mineral Extraction
		Waste Local Plan: Policy No. 42 - Landfilling Inert Waste
63 - Restoration - Mineral traffic crossing Puddletown Road	Criteria for permissions for new or extended operations south of Puddletown Road, in relation to traffic crossing the adjoining road	Minerals Core Strategy: DM8 Transport and Minerals Development
65 - Restoration - Consideration of applications	Criteria for permitting restoration of former mineral workings in the Moreton-Redbridge area	Minerals Core Strategy: RS1 Restoration, Aftercare, and Afteruse of Minerals Development
		Minerals Core Strategy: DM11 Review of Old Mineral Planning Permissions
67 - Hydrocarbons - Exploration	Criteria for permitting exploratory drilling for hydrocarbons	Minerals Core Strategy: HY1 Proposals for Exploration and Appraisal

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Minerals & Waste Local Plan 1999		Policy to be superseded ⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
68 - Hydrocarbons - Appraisal	Criteria incumbent on operators to provide details of appraisal area for drilling	Minerals Core Strategy: HY1 Proposals for Exploration and Appraisal
69 - Hydrocarbons - Production	Criteria for permissions for facilities for commercial hydrocarbon production	Minerals Core Strategy: HY2 Proposals for Production Facilities and Ancillary Development
70 - Hydrocarbons - Gathering station	Criteria for the siting of gathering stations and major facilities associated with hydrocarbon developments	Minerals Core Strategy: HY2 Proposals for Production Facilities and Ancillary Development
71 - Hydrocarbons - Transport	Criteria for the transportation of hydrocarbons	Minerals Core Strategy: HY3 Transportation of Hydrocarbons
72 - Hydrocarbons - Restoration	Criteria for the restoration of the 3 phases of hydrocarbon development	Minerals Core Strategy: HY4 Decommissioning and Restoration of Production Facilities and Ancillary Development
73 - Hydrocarbons - Converting exploration sites to production	Criteria for the assessment of proposals to convert exploration sites into production facilities	Minerals Core Strategy: HY2 Proposals for Production Facilities and Ancillary Development

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Minerals & Waste Local Plan 1999		Policy to be superseded⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
		Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction
74 - Hydrocarbons - Criteria for landfalls	Specific criteria for permissions for landfalls for pipelines	Minerals Core Strategy: DM1-10 Management of Operational Impacts related to Mineral Extraction

Waste Local Plan 2006		Policy to be superseded⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
32 – Recycling of inert and construction and demolition waste	Criteria for permission for recycling and inert and construction and demolition waste proposals, to be in accordance with other plan policies	Minerals Core Strategy: RE1 Production of Recycled Aggregates

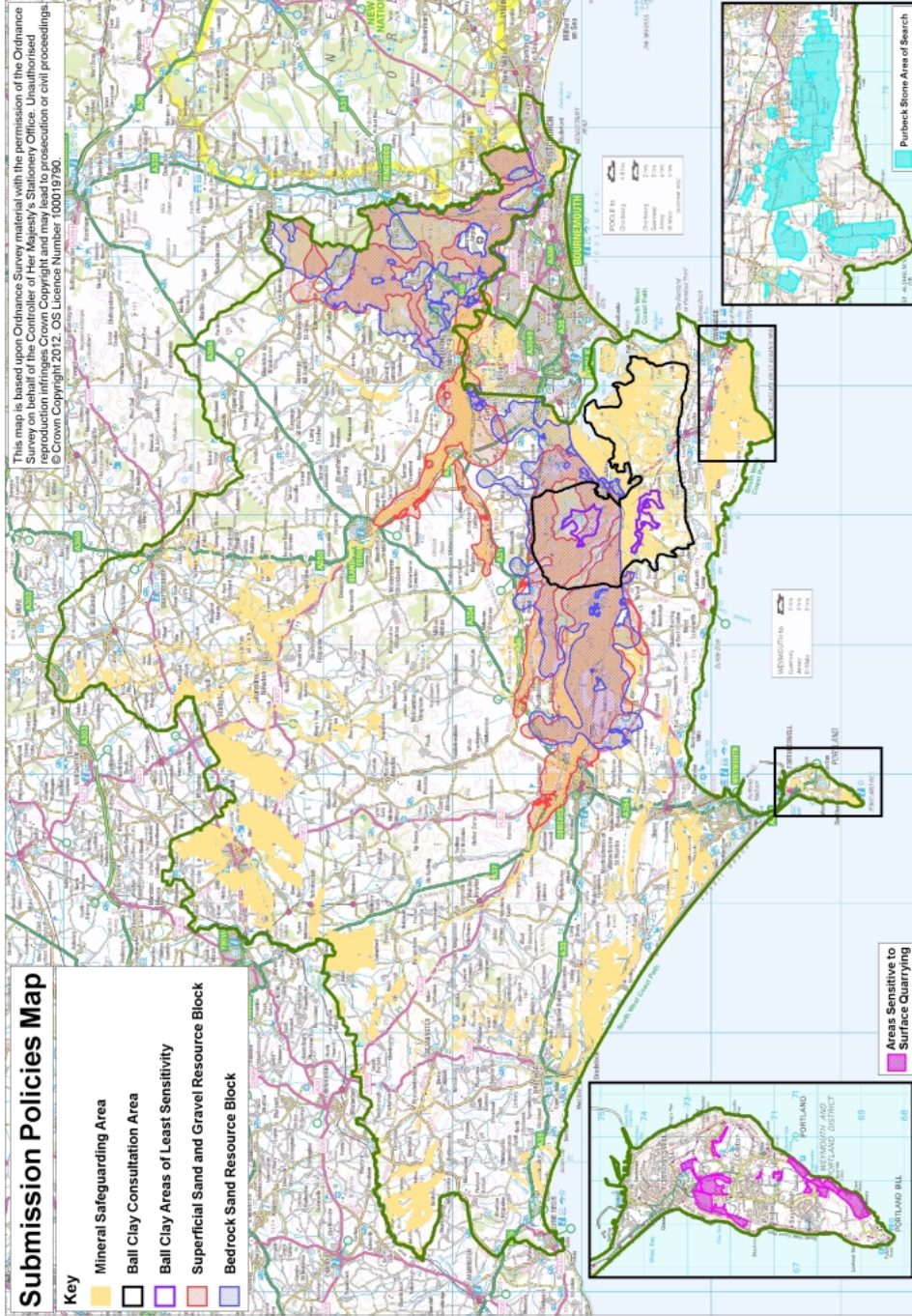
57 Saved Policies listed in Appendix 2 will remain in place until superseded by the adoption of the relevant plans and policies as listed in this table. Note where more than one plan is listed against a specific saved policy, that policy will remain 'saved' until all listed plans/policies are adopted.

Waste Local Plan 2006		Policy to be superseded ⁽⁵⁷⁾ by:
POLICY NO.	REASON FOR POLICY	PLAN TITLE/POLICY NO.
Saved Policies 1-4, 6-9, 11-13, 15, 17, 19-21, 23-31 and 33-47	Various policies covering waste matters and site allocations	To be superseded by the new Waste Plan (once adopted), which will be commenced during 2012.

Appendix 3: Submission Policies Map

Appendix 3: Submission Policies Map

Map 1 Submission Policies Map

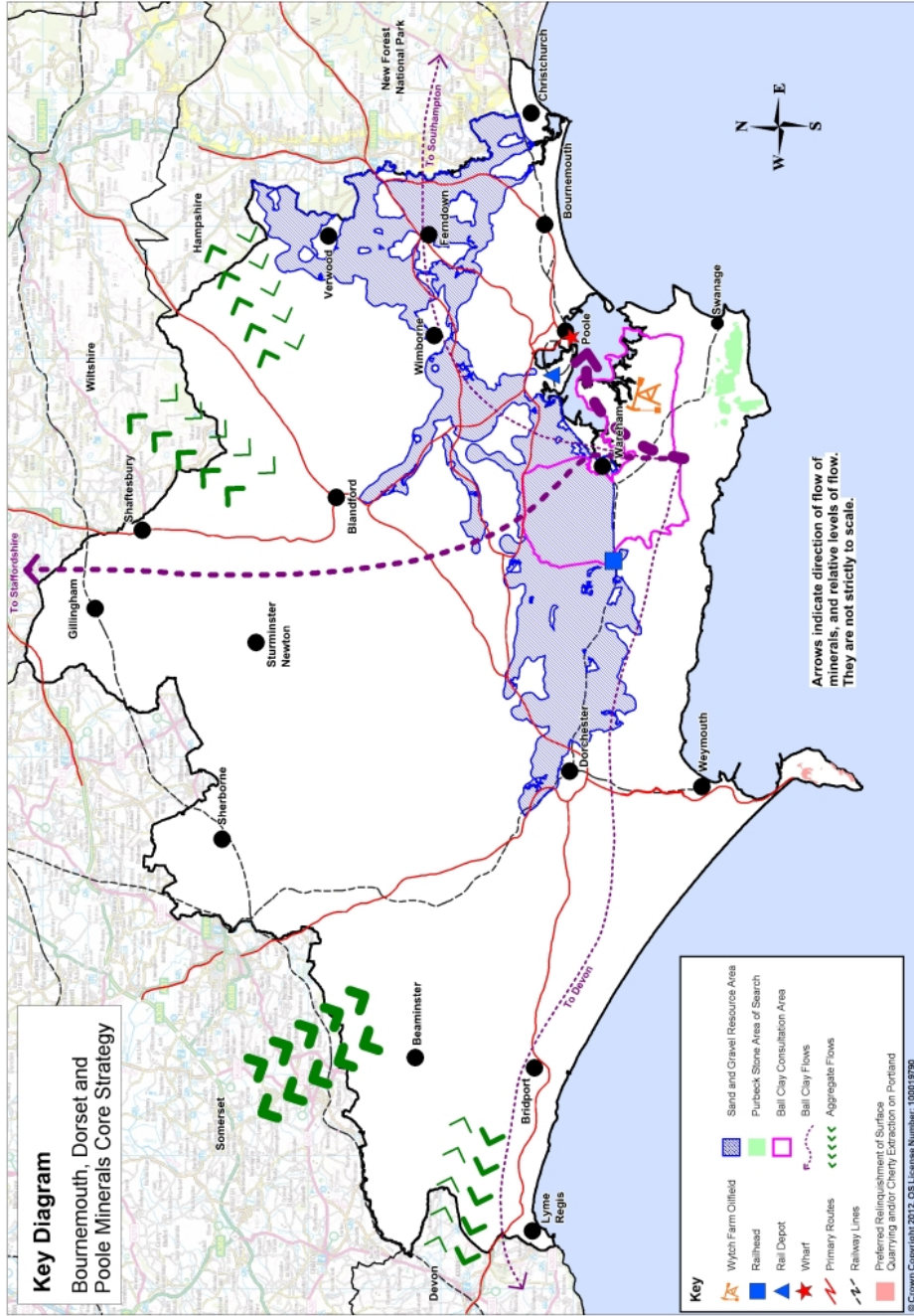


The Submission Policies Map can also be downloaded separately from the Supporting Documents list on the consultation portal.

Appendix 4: Key Diagram

Appendix 4: Key Diagram

Map 2 Key Diagram



The Key Diagram can also be downloaded separately from the Supporting Documents list on the consultation portal.

All documents can be made available in audio tape, large print and Braille, or alternative languages on request.



Minerals and Waste Planning Policy Team

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