



Hatfield Aerodrome, Hertfordshire

Planning Application for a new quarry and ancillary facilities

on land at the former Hatfield Aerodrome

Volume 2C - Non Technical Summary

Revised October 2021

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INTRODUCTION

1. This document comprises a Non Technical Summary ('NTS') and has been prepared by SLR Consulting Limited ('SLR') on behalf of Brett Aggregates Limited ('the applicant'). The NTS forms part of a package of documents being formally submitted to Hertfordshire County Council (as Mineral Planning Authority, or 'MPA') in support of a planning application in respect to land at the former Hatfield Aerodrome, near Hatfield, Hertfordshire. **This version of the NTS has been updated in October 2021 in light of additional environmental information that is available as a result of preparing a second planning application. This is set out at paragraph 95 below.**
2. The applicant is submitting a planning application for the establishment of a new quarry on land at the former Hatfield Aerodrome, being part of the allocated site referred to in the extant Minerals Local Plan¹ (refer to Chapters 2 and 4 of Volume 2 for further information on the policy framework for the area). The proposals would involve the winning and working, together with processing for sale, of some 8Mt of sand and gravel over a period of around 30 years. In parallel with the extraction of minerals would be the importation of low permeability inert material to infill the mineral workings to facilitate the restoration of the site to a beneficial after use, combining recreation and nature conservation. The imported material would typically comprise excavation wastes from construction and engineering projects (soils, overburden, clays etc.) within the region.

APPLICATION SUBMISSION PACKAGE

3. This NTS comprises Volume 2C of a larger multi volume submission submitted to the MPA to accompany the planning submission. In addition to the formal planning application forms and certificates, the full submission comprises:
 - Volume 1- Planning Statement;
 - Volume 2- Environmental Statement;
 - Volume 2A – ES Text;
 - Volume 2B – ES Technical Appendices;
 - **Volume 2C – A Non-Technical Summary of the ES;** and
 - Volume 3 - Statement of Community Involvement.
4. The NTS has been produced as a separate, standalone document in line with best practice prescribed by the Institute of Environmental Management and Assessment (IEMA) to accompany the planning submission, being a mandatory part of the Environmental Statement (ES). The purpose of the NTS is to provide, in non-technical language, a brief summary of the likely significant effects that the proposed development would have on the environment.
5. Paper copies of the ES can be obtained from SLR at the following address:

Aspect House
Aspect Business Park
Bennerley Road
Nottingham
NG6 8WR

¹ "Preferred Area 1", and illustrated on Inset Map 6 within the Mineral Local Plan

6. The ES is available in both paper and CD-ROM format, for which a charge of £250 and £25 is applicable respectively. A copy of the NTS is available free of charge on request. In addition, the application documents will also be available to download from the Hertfordshire County Council website.

PLANNING AND EIA

7. European legislation (the Environmental Impact Assessment Directive or 'EIA Directive' for short) requires that, before granting 'development consent' for projects authorities should carry out a procedure known as environmental impact assessment (or "EIA") of any project which is likely to have significant effects on the environment. In the UK, development consent includes the grant of planning permission.
8. An ES is a report of an EIA that is required to be submitted with a planning application.
9. An integral aspect of the EIA process is to clearly identify or 'scope' the main environmental issues, as this allows for more detailed and targeted assessment to be carried out. The applicant submitted a formal request to the MPA for their opinion as to the issues that needed to be addressed in the EIA and the opinion was issued on 19 November 2015.

PLANNING AND ENVIRONMENTAL PERMIT

10. The proposals for the importation of inert fill material would be governed by an Environmental Permit issued by the Environment Agency in addition to a planning permission. The Environmental Permit will contain a number of conditions intended to regulate the day to day management of the site with the aim of minimising the effect of the operation on the environment; it will also contain conditions regulating site management and monitoring.
11. Government advice on planning makes it clear that it is important to avoid unnecessary or confusing duplication. For example, National planning policy states that "...local planning authorities should focus on whether the development itself is an acceptable use of the land, and the impact of the use, rather than the control of processes or emissions themselves where these are subject to approval under pollution control regimes. Local planning authorities should assume that these regimes will operate effectively." (para 122, National Planning Policy Framework)

THE SITE

12. Land to which the planning application relates (referred to as "the application site") is located on the north-western edge of Hatfield and to the east of St Albans on land associated with the former Hatfield Aerodrome. It lies within an area bounded by the A1057 (Hatfield Road/St Albans Road) to the south, Oaklands Lane to the west, Coopers Green Lane to the north and the western fringe of Hatfield to the east.
13. The application site covers an area of around 87.1ha and comprises the southern part of the former aerodrome. The application site comprises a broadly rectangular area of unoccupied land that is partly used as an informal public open space and partly for grazing.
14. The application site is bounded by the A1057 (Hatfield Road) to the south, the boundary of which is characterised by a mature hedgerow. To the north lie CEMEX's

Hatfield Quarry, and more specifically a set of silt lagoons. To the west the boundary is predominantly formed by a mature hedgerow, particularly in the vicinity of the garden centre and nursery, with the northern section being more open in aspect. At the north eastern corner is Home Covert, a small area of broadleaf woodland. The eastern boundary cuts across the former aerodrome to join up with the sports pitches located at the south eastern corner of the application site.

15. In the area surrounding the application site there are no nationally significant ecological designations. There is one Local Nature Reserve (Colney Heath) and 23 Local Wildlife sites within a 2km radius of the application site. The closest is Home Covert, which lies adjacent to the application site; twelve of the sites are over 1km from the site boundary with the remainder located between 510m and 900m from the site boundary. There are no Scheduled Monuments within or surrounding the application site; however there are two listed buildings at Popefield Farm, on the southern boundary of the application site.
16. The nearest residential building to the application site is Popefield Farm. Residential areas exist to the south, east and west of the application site.

Figure 1
Site Location

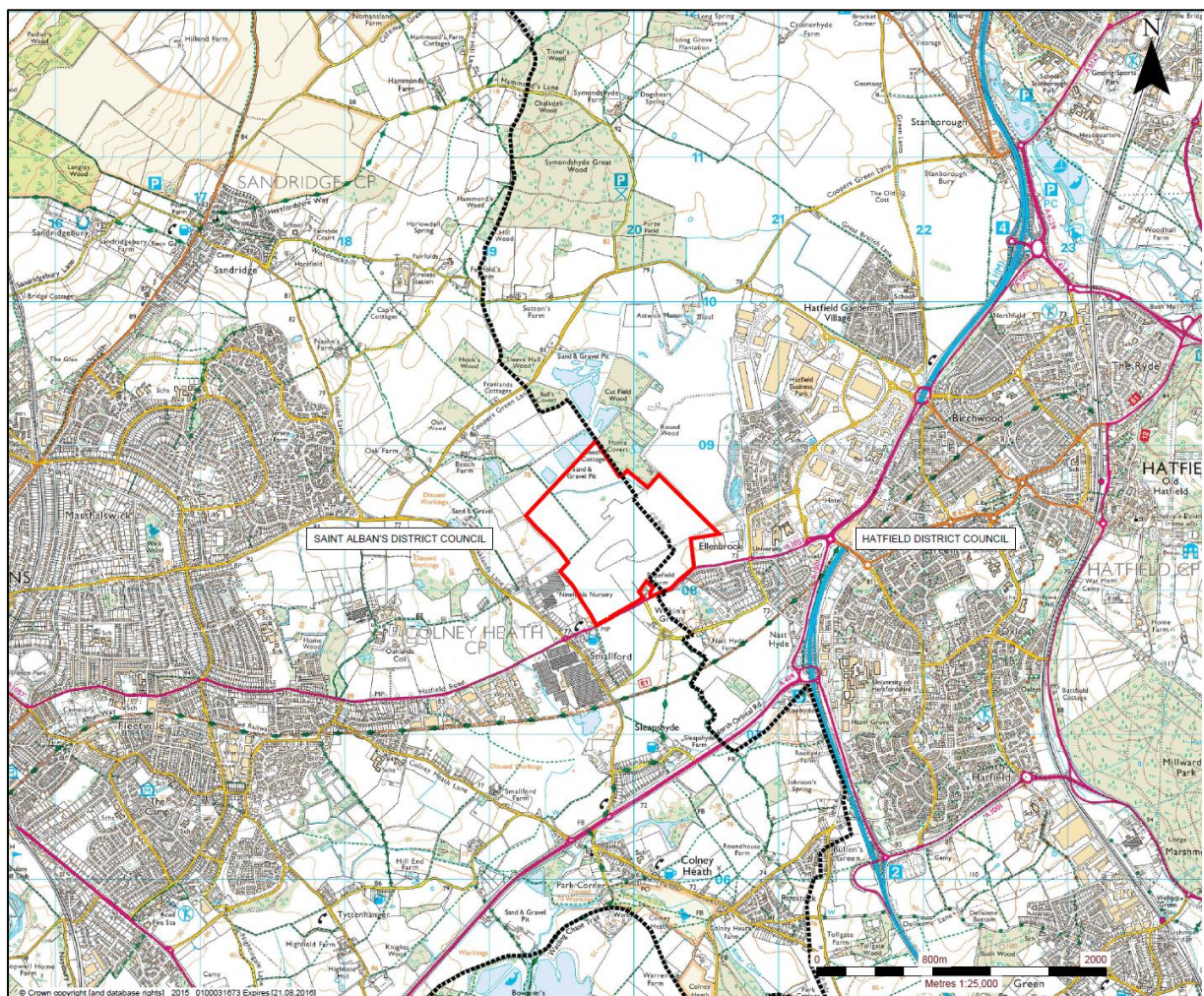


Figure 2
Application Site Context



THE PROPOSED DEVELOPMENT

17. The applicant is submitting a planning application for the establishment of a new quarry on land at the former Hatfield Aerodrome, being part of the allocated site referred to in the extant Minerals Local Plan ("Preferred Area 1", and illustrated on Inset Map 6 - refer to Chapter 2 and 4 of Volume 2 for further information). The proposals would involve the winning and working, together with processing for sale, of some 8Mt of sand and gravel over a period of around 30 years (based on an annual output of around 250,000tpa). In parallel with the extraction of minerals would be the importation of low permeability inert material to infill the mineral workings to facilitate the restoration of the site to a beneficial after use, combining recreation and nature conservation. The imported material would typically comprise excavation wastes from construction and engineering projects (soils, overburden, clays etc.) within the region.
18. The quarry would be worked on a phased basis to allow for progressive restoration. Sand and gravel would be worked from two discrete horizons; the Upper Mineral Horizon ('UMH'), which lies predominantly above the water table, would be worked dry whilst the Lower Mineral Horizon ('LMH') would be worked wet (i.e. limited dewatering of the workings). Above the UMH is a clayey material (referred to as 'overburden') on top of which is the soil horizon. The two mineral horizons are separated by a laterally continuous layer of boulder clay (referred to as 'interburden'); the overburden and interburden would be used to control groundwater ingress and to infill the base of the workings to provide a suitable low permeability geological barrier on top of which the imported material would be placed.
19. Excavated material would be processed at the quarry using a combination of screening and washing plant to produce a range of graded aggregates and sands. Processed aggregates would either be dispatched from the site in HGVs or used in ancillary plant (a 'concrete batching plant') located within the plant site for the production of concrete. Processed aggregates and concrete (together with the import

of cement) would be exported via a new access constructed onto the A1057 (Hatfield Road) on the southern side of the quarry.

20. Other ancillary development would include two weighbridges with attendant office, office/welfare accommodation, substation and electrical switch-room, and small stores and maintenance building, fresh water and silt lagoons.
21. It is proposed to restore the application site to a beneficial after-use which aims to:
 - progressively deliver a landscape which is similar in character and appearance to the existing Ellenbrook Fields;
 - improve overall biodiversity interest and value at the site;
 - reinstate the current accessibility of the greenspace to members of the local public; and
 - fulfil all engineering requirements, in terms of managing surface water and groundwater environments at the site.
22. The landcover would consist of broad area of gently sloping conservation grassland (from west to east), divided by hedgerows and with some complimentary wetland and pond features. At a more local level, areas of micro-topographical and substrate variation would be included to provide habitat diversity and enhancements (e.g. a range of species-rich grassland communities). The proposed waterbodies include both shallow scrapes, ponds and a deeper waterbody at the north-eastern end of the application site.

**Figure 3
Proposed Phasing**

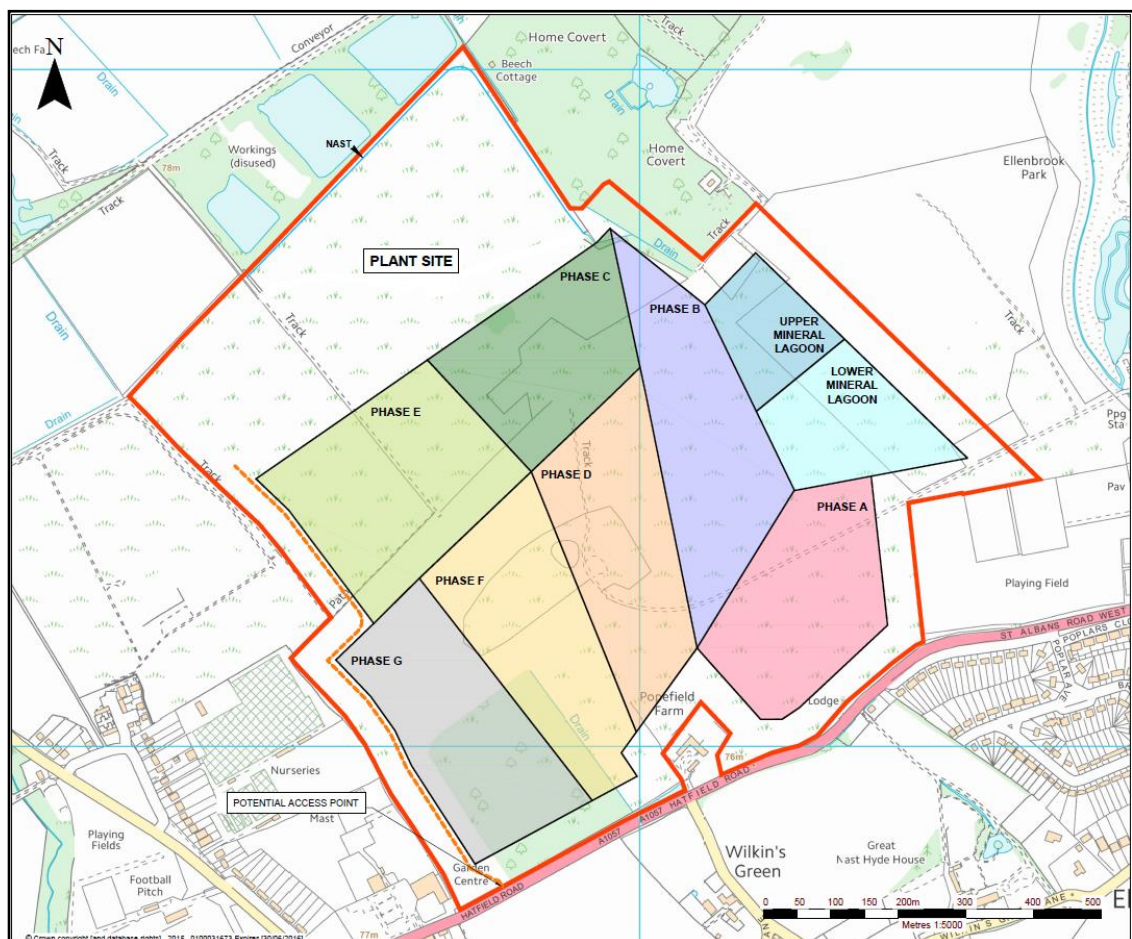


Figure 4
Illustrative Restoration Concept



PLANNING POLICY

23. Chapter 4 of the ES sets out how the proposed development has been considered against relevant national and local planning policy.
24. National planning policy is set out in the National Planning Policy Framework² (NPPF), which is accompanied by the web based Planning Practice Guidance³ resource relating *inter alia* to minerals matters. Many sections of the NPPF are not relevant to this proposal since the application site is not located within a sensitive area subject to land use planning constraints (e.g. a National Park, an Area of Outstanding Natural Beauty, a Site of Special Scientific Interest or a Scheduled Monument). The site is though located within a Green Belt.
25. At the heart of the NPPF is a presumption in favour of sustainable development, which should be taken as “*a golden thread*” running through both plan making and decision taking. The NPPF identifies three elements to sustainable development, being economic, social and environmental. It is considered that the proposed development would create various economic and social benefits without resulting in significant impacts upon the environment.
26. The NPPF does not change the fundamental premise that applications for planning permission must be determined in accordance with the adopted development plan unless material considerations indicate otherwise.
27. The Minerals Local Plan specifically governs mineral development within Hertfordshire and remains in force until the adoption of the emerging Minerals Development Framework.
28. The Development Framework seeks to reconcile the development needs of society against safeguarding the environment and amenity of local communities. In so doing, the Development Framework sets out a series of Policies which seek to guide developments in terms of acceptable limits and design, whilst ensuring interests of archaeological, cultural heritage, ecological interest and importance are protected, and that the local amenity and environment of communities are not derogated through pollution to air, land or water.
29. Through the EIA process, it has been possible to demonstrate that the development proposals would not conflict with the stated aims and policies of the Development Framework. This is explored in greater detail within the Planning Statement which also accompanies the planning application.

ALTERNATIVES

30. Chapter 5 of the ES sets out the alternatives to the proposed scheme have been considered as part of the EIA. The EIA Regulations require that an outline of the main alternatives studied and an indication of the main reasons for this choice, taking into account the environmental effects should be included in an ES.

² Department of Communities and Local Government. March 2012

³ <http://planningguidance.communities.gov.uk/>

31. Few alternatives were considered as part of the EIA. The design evolution involved the following changes:
- changing the location of the recharge lagoons to the eastern boundary (from the southern boundary);
 - opting for a traditional static mineral processing plant, with screens and crusher housed within clad enclosures;
 - leaving two ponds on the periphery known to contain great crested newts *in situ*; and
 - altering the restoration strategy from a heavily biodiversity lead scheme to one involving more public access.

WATER

32. Chapter 6 of the ES describes the scope, relevant legislation, assessment methodology and the baseline conditions currently existing at the application site and its surroundings. It then considers any potential significant environmental effects the proposed development of the quarry could have on this baseline environment, the mitigation measures required to prevent, reduce or offset any significant adverse effects, and the potential residual effects after these measures have been employed.
33. The operation and restoration of the application site would be undertaken using current technical guidance, relevant Pollution Prevention Guidelines, other codes of best practice and consents, to limit the potential for contamination of both ground and surface waters. Best practice techniques would be incorporated within the management procedures for construction and operation activities onsite in order to protect the water environment from pollution incidents.
34. As part of an application for an Environmental Permit a hydrogeological risk assessment has been completed to assess the proposed restoration of the quarry with imported inert wastes. The risk assessment has confirmed that the proposed development would not have a significant effect on the water environment. No additional mitigation measures are therefore required over and above the technical precautions that are proposed for the construction and management of the quarry.
35. Groundwater is present within both of the mineral horizons and separated by a layer of boulder clay. All groundwater pumped from the two mineral horizons would be recharged back into the respective aquifer so that there would be no significant loss of resource. Two separate recharge lagoons would be provided; one for each of the mineral horizons order to prevent the mixing of waters from different aquifers. The recharge areas are relatively close to the points of abstraction and it is not envisaged that there would be a significant impact on water resources in either aquifer.
36. Groundwater in the lower mineral horizon/Chalk to the north and east of the application site is contaminated with bromate from an historical spill. There is a risk that pumping groundwater from the lower mineral horizon would intercept the bromate plume, potentially causing the plume to spread. Measures are incorporated into the design and operation of the quarry so that this risk would not be significant.
37. There is a risk that the development could cause groundwater levels to rise as the restoration of the void with imported inert material would make a barrier to groundwater flow. A drain is therefore included in the design to ensure groundwater levels do not increase above historically high elevations, both during the operational and restored phases of the site.

38. A flood risk assessment has been prepared to assess the risk that the development itself would be affected by flooding or would exacerbate flood risk elsewhere. Mitigation measures are presented to ensure flood risk is not significantly increased. This includes the recharge of water encountered during the development, both during the operational and the restored phases, back into the aquifer to minimise off-site disposal.
39. A 'Water Framework Directive' compliance assessment has been undertaken and is included as an appendix to the ES. This concludes that the proposals would not have a significant impact on the objectives of the directive.
40. Overall, it is concluded that, with respect to groundwater and surface water, there would be no significant residual effects of the proposed development after inclusion of the identified mitigation measures.

TRAFFIC

41. The ES, in Chapter 7 reports on an assessment of the impacts on the local transportation network as a result of the proposed development.
42. The assessment included a detailed audit of the existing highway conditions and a review of the local accident history in the proximity of the application site. As part of the development proposals a new access would be constructed onto the A1057. The assessment has considered the design of this access and demonstrated that the highway network would continue to operate satisfactorily.
43. The A1057 Hatfield Road is a classified 'A' road which currently accommodates an Annual Average Weekday Traffic (AAWT) flow of over 15,000 mixed size vehicles.
44. A link capacity assessment has been undertaken and demonstrated that the A1057 currently operates within its theoretical capacity and it would continue to do so comfortably with the addition of the proposal traffic from the quarry.
45. The link impact assessment has demonstrated that the likely increase would be 1.3% in terms of total vehicles, which is well within the daily fluctuations in traffic levels experienced and is therefore unlikely to be perceptible away from the site access junction.
46. Appropriate mitigation measures are proposed in order to minimise any impacts of the proposed development relating to road safety and dust and dirt.
47. In conclusion, it is considered that the proposed development traffic would operate adequately and have no adverse impact on the surrounding road network.

LANDSCAPE AND VISUAL IMPACT ASSESSMENT

48. Chapter 8 of the ES considers the potential landscape and visual implications of the proposed development. The assessment follows recognised guidance issued jointly by the Landscape Institute and Institute of Environmental Management and Assessment.
49. This assessment included a baseline study of the existing site and its surroundings, a study of the landscape and visual characteristics of the development and an

assessment of the residual landscape and visual effects likely to be generated after mitigation has been considered and their significance.

50. Overall there are no significant landscape or visual effects predicted as a result of the proposed development, influenced in part by the proposed mitigation and landscape strategy.
51. The physical changes to landscape elements and features is initially considered to be slight, associated with site preparation and establishment stages, rising to moderate and adverse during working phases and when the majority of disturbance would have occurred, but reducing as part of progressive restoration and eventually becoming slight and beneficial after final restoration is achieved.
52. The changes to aesthetic and perceptual aspects are also considered to be no more than moderate and adverse during operation phases, but becoming slight and beneficial after restoration.
53. The overall landscape effects upon the application site and local character area as a whole are considered to be slight as the published character area is relatively large in comparison and the scale of change is limited; the area would continue to be described *inter alia* as a jumbled, urban fringe landscape, with existing and restored mineral workings across parts of the extensive level plain.
54. There would be no new key characteristics introduced, but the addition of a new area of active quarrying and infilling, with processing plant is nevertheless a detracting element.
55. In terms of cumulative landscape effects, the addition of the proposed development to the ongoing operations at Hatfield Quarry would not give rise to changes in landscape character of such an extent as to have major effects on its key characteristics or transform it into a different character type; it is not considered that the development “tips the balance” through its additional effects.
56. The visibility of the application site is influenced at a local level by the screening effects of vegetation in the surrounding area, in particular in conjunction with the flat, level plain which prevents any views down or over the site. The clearance of existing vegetation and landcover, the formation, working and subsequent backfilling of the mineral extraction void would have very limited visibility.
57. The diversion of the rights of way and areas of permissive access around the site perimeters would move visitors to this part of Ellenbrook Fields along landscaped corridors that are of similar character to existing routes and/or across the new internal access roads and over undisturbed areas. These routes would then be progressively reinstated as part of final restoration.
58. The mineral processing plant would have some visibility from limited locations at gaps in hedgerows, etc to the north and west of the application site, but this is generally backgrounded and/or seen as part of a mainly wooded horizon, with other development such as Ellenbrook, Hatfield or Smallford. The formation of the site entrance and movement of vehicles to and from the quarry would be visible from a small part of the existing busy Hatfield Road (A1057).
59. Although there are several sensitive receptors in the study area (mainly residential and recreational), most would experience a small degree of change to the baseline condition; change is discernible but underlying landscape character or view

composition would be similar to the baseline. The landscape strategy / mitigation proposals would be effective.

60. In cumulative visual terms there is both potential simultaneous and sequential visibility of the proposed development with the existing operations at Hatfield Quarry; however this would not result in a new landscape character or completely transform the views. Also the Hatfield Quarry plant site area and associated elements and features (fencing, bunds and conveyor) are expected to be removed as part of the cessation of mineral extraction at the site in 2020, at which point there would be no cumulative visual effects.

AIR QUALITY

61. Chapter 9 of the ES considers the potential for the proposed development to impact upon air quality in the vicinity of the application site.
62. The chapter describes the scope, relevant legislation, assessment methodology and the baseline conditions at the application site and the surroundings area. The assessment considers any potential significant environmental effects that the proposed development would have on the baseline environment; the mitigation measures required to prevent, reduce or offset any significant adverse effects; and the likely residual impacts after these mitigation measures have been employed. The assessment has considered both emissions from the quarrying (and associated) activities and from HGVs transporting aggregates or concrete.
63. The potential impacts of the development have been assessed in terms of potential emissions of particulates (dust). Two assessments have been undertaken; the first to assess the fine fractions (namely dusts with a diameter of less than 10 microns⁴ and 2.5 microns) for which Air Quality Standards exist, and the second to assess the coarse fraction dust which is typically associated with amenity or nuisance issues.
64. The assessment of for the fine fractions was completed following recognised guidance considering background particulate matter levels and distance to receptors. Background levels are 'well below' the limit. Proposed operations are not considered to result in an increase in the generation of dust and therefore not considered to lead to a significant increase in either PM10 or PM2.5 emissions which would lead to an exceedance of the Air Quality Objectives.
65. A qualitative assessment of deposited dust was undertaken; this identified the potential sources of dust onsite. Risk of dust impact at receptors was determined based on the potential sources of dust, the distance from the site, the frequency of wind direction and proposed site operations.
66. Dust mitigation measures have then been identified by reference to the relevant guidance documents. With effective implementation of these mitigation measures the risk of adverse dust effects on local receptors is considered to be low. On completion of the proposed development the risk of dust effects would be negligible. The potential for dust impacts on the surrounding ecological sites has been assessed as insignificant.

⁴ Also referred to as micrometre. For dust with a particle size of 10 microns, the acronym PM10 is often used, and for 2.5 microns, PM2.5.

67. The change in air quality as a result of additional traffic on local roads is predicted to be 'small' to 'imperceptible' and therefore the impact is considered 'negligible' according to recognised assessment criteria.

NOISE

68. Chapter 10 of the ES considers the potential for the proposed development at Hatfield Aerodrome to impact upon the noise environment in the vicinity of the application site. The chapter describes the scope, relevant legislation, assessment methodology and the baseline conditions that exist around the application site.
69. The noise assessment has used measured background noise levels at three locations around the application site and made a series of noise level predictions based in accordance with relevant standards and guidelines. The predicted noise levels have then been assessed against criteria in accordance with recognised guidance. Predicted noise levels are based on a 'worst case' scenario when operations are being undertaken simultaneously at their closest approach to the noise-sensitive receptor being assessed or highest elevation with the quarry.
70. Noise levels during temporary operations (such as soil stripping and overburden removal) would remain within the specified criterion adopted for the assessment at all locations assessed. It should also be noted that construction noise levels would also remain below the lower 55dB(A) noise limit derived in accordance with the relevant guidance for day to day operations except during construction of the perimeter screening mounds to the south. In view of this no mitigation measures are deemed necessary.
71. Worst case noise levels generated by operational activities, including all truck movements on the access road, would be at or below the noise limits derived in accordance with the relevant guidance at all locations. The cumulative effects would result in changes in the ambient noise level that are not considered significant.
72. Based on the results of the assessment, it is considered that all practical means have been employed in the design of the site to protect the amenity of the nearby noise-sensitive receptors. A number of good site practice measures have been suggested to further reduce the risk of any potential adverse noise impacts.
73. It is concluded that noise should not pose a material constraint for proposed development.

ECOLOGY

74. Chapter 11 of the ES assesses the potential impacts on valued ecological receptors resulting from the proposed changes to the approved scheme.
75. The assessment has found that the habitats are mainly derived from former airfield grasslands in various stages of development towards rough grassland and scrub, but with areas of disturbance from demolition activities and past use of the site as a film set and areas where habitat succession has been arrested by grazing or mowing. A few hedgerow features and some of the ponds and ditches represent relics from the pre-airfield landscape, and the site adjoins Home Covert, a mature woodland and Local Wildlife Site. The main ecological interest lies in the site's expansive and open grasslands, which although of limited species-diversity, have value due to their scale; their essentially unbroken expanse attracting open country species such as meadow

pipit, skylark, kestrel and owls. Certain of the waterbodies also support great crested newts, although reptiles are very sparsely represented, despite the habitat. The invertebrate interest can be classed as 'developing': whilst it includes formally scarce and rare species, it is not dissimilar to that which would be expected on marginal or abandoned land anywhere in the Home Counties, although populations of the scarcer species are likely to be large.

76. The net residual effect of the proposals in terms of the key ecological receptors is anticipated to be at worst neutral and at best a positive effect measurable at least at the District level of significance. The difference relates to a degree of residual and unavoidable uncertainty over the success of the restoration scheme and subsequent long-term management in securing similar or enhanced habitats to the baseline position and, in particular, the extent of visitor pressure and its management over the long-term.
77. The development would give rise to minor temporary negative effects on certain key faunal receptors (in particular great crested newts and badgers) during various stages of the working sequence, but none of these receptors are predicted to be subject to negative effects of high magnitude (e.g. significant in terms of wider local populations), subject to mitigation measures which, in respect of great crested newts and badgers, are required under statute in any event. There is no impediment to mitigation proposals being delivered that are in accordance with standard best practice, and in that context there is no cause to believe that the requisite licenses would not be forthcoming in due course. There is also a high certainty that all temporary negative effects on key faunal receptors related to habitat loss would be at least fully compensated in the long-term through the restoration scheme.
78. The proposals for restoration focus on replication of the higher-value elements of the site in its baseline condition, including in particular the large expanses of rough circumneutral grassland, but also seek to exploit opportunities to secure expanded representations of other semi-natural vegetation, in particular acid grassland and wetland habitats, providing replacement and expanded opportunities for species of conservation importance, including declining open-country birds, scarce plants and insects, great crested newts and others. Depending on the success of restoration delivery, and the future management of the site, the project has the potential to ultimately deliver significant positive effects at District level or above, and to qualify the restored site for non-statutory designation within a relatively short time frame.

CULTURAL HERITAGE

79. Chapter 12 of the ES presents the findings of a cultural heritage desk-based assessment and field evaluation in connection with the proposed development.
80. Although the Hertfordshire Historic Environment Record would indicate that the application site lies within an area of some archaeological potential, there is clear evidence of significant disturbance through the construction and demolition of Hatfield Aerodrome, and subsequent use as a film set for Saving Private Ryan and Band of Brothers.
81. Even where the ground is undisturbed, geophysical survey and Phase 1 trenching has found scant archaeological remains and none that would appear to pre-date the post-medieval period. No artefacts of earlier date were found.

82. The nature of the proposed mineral extraction however results in the total loss of the archaeological resource wherever extraction takes place, and the potential loss or damage in other areas associated with infrastructure and landscaping.
83. There would be no adverse direct effects upon designated assets such as listed buildings or scheduled monuments.
84. In accordance with planning policy, a precautionary approach should be taken to the potential loss of the archaeological resource. A tiered watching brief within areas undisturbed by modern activities, accompanied by excavation and recording, is therefore proposed. Such mitigation could be carried out in line with the quarry phasing.
85. Should archaeological features be identified these would be recorded and excavated, appropriate to their significance, with subsequent analysis and publication of the results. This would ensure recovery of archaeological information within the application site.
86. The scope of work would be submitted to Hertfordshire County Council before development commences in the form of a Written Scheme of Investigation and would be subject to a planning condition requiring its implementation.
87. Examination of a study area of 1km from the application site was undertaken to assess the potential effects of the proposed development upon the setting of designated heritage assets. Thirty listed structures lie within 1km of the application site boundary, but due to intervening vegetation and development only the listed building complex at Popefield Farm could experience an adverse effect of any magnitude.
88. An assessment of the predicted effects upon Popefield Farm both during operation and after restoration was carried out using Historic England guidance. This concluded that there would be a minor adverse effect upon views of and from Popefield Farm during the operational phase. After restoration, that would include hedge planting to recreate the 1888 historic field pattern with the aim of reinstating the broader landscape setting of Popefield Farm, there would be a minor beneficial effect.
89. No additional mitigation is considered necessary in connection with the effects upon offsite designated heritage assets.
90. With the implementation of the proposed mitigation strategy, in respect of archaeology and the historic landscape-led restoration scheme, there would be no adverse residual impacts.

CUMULATIVE IMPACTS

91. The final chapter of the ES considers the potential cumulative impacts arising as a result of the proposals described above.
92. Chapters 6 to 12 of the ES set out the findings of the EIA for a range of environmental topics, and in particular, ascertained the potential significance of identified impacts. It is possible for a number of the environmental topics to impact upon nearby receptors; whilst individually, the impacts may be within accepted limits, collectively, and the impacts could potentially be more significant. These are referred to as “*inter-relationships between impacts*”. At the same time, potential impacts associated with the proposed development may be acceptable in isolation, but when considered in the

context of other developments in the immediate vicinity, may become more significant. These are referred to as “*Cumulative Impacts*”.

93. It is noted that there is a sand and gravel quarry (CEMEX Hatfield Quarry) to the north of the application site. The potential cumulative impacts arising through the proposed development of the quarry have been considered and none have been identified.
94. No significant impacts have been identified for any of the environmental topics considered as part of the EIA. Thus, no receptors are likely to experience any significant accumulated impacts from two or more sources.

ADDITIONAL ASSESSMENT

95. In January 2021 the planning application was refused and in September 2021 the applicant re-submitted the planning application. In response to the refusal, the re-submitted application contained the following changes:
 - Removal of the concrete batching plant;
 - Increasing the standoff for mineral extraction operations in the LMH to the bromate plume from 50m to 100m;
 - No dewatering (pumping) of the LMH; and
 - Access road from the quarry entrance moved 5m to the east to allow additional acoustic screening
96. The re-submitted application was accompanied by an Environmental Statement (ES2). The ES2 contained updated data and assessments of the development proposed in the re-submitted application.
97. Consideration has now been given to whether the updated data and assessments in ES2 affect the conclusions reached in the Environmental Statement for the planning application (ES1). The applicant has prepared a document, entitled, “HATFIELD AERODROME Comparison of 2016 and 2021 Environmental Statements accompanying application reference 5/0394-16 (ES1) and application reference PL/0232/21 (ES2)” (the ‘Comparison Table’).
98. The Comparison Table sets out the conclusions reached when applying the data and assessments in ES2 to the planning application at Table 2 and confirms that the conclusions reached in ES1 are not altered save in relation to Noise. However the overall conclusion remains that the cumulative effects of operational noise would result in changes in the ambient noise level that are not considered significant.
99. In addition, a lighting assessment (October 2021) has now been undertaken and concludes that the impact from the proposed lighting scheme for the new development in terms of obtrusive light will not be significant.
100. Copies of ES2, the Comparison Table, the Noise Addendum (referred to in the Comparison Table) and the Lighting Assessment are available from SLR by email request to clowden@slrconsulting.com
101. In addition, the re-submitted application documents including ES2 will also be available to download from the Hertfordshire County Council website.

ABERDEEN

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