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## INTRODUCTION

- 12.1 This chapter assesses the potential cumulative impact generated by the revised restoration proposals. Throughout the technical chapters and associated appendices contained within the Environmental Statement (ES), the impacts that the proposed development could potentially have on the site and the surrounding area has been assessed.
- 12.2 This chapter draws together the findings of all the technical assessments and outlines whether any cumulative impacts may emerge from the interaction between the revised restoration proposals and others in the area.
- 12.3 In essence, cumulative impacts are those which result from incremental changes caused by other past, present or reasonable foreseeable development together with the proposed development. Therefore, the potential impacts of the proposed development cannot be considered in isolation but must be considered in addition to impacts already arising from existing or planned development.
- 12.4 Each technical discipline (traffic, air quality, noise, landscape, hydro, ecology, and planning) have each identified within their studies the outcome of the revised restoration and the cumulative effects it potentially could have.
- 12.5 Drawing on the results of the ES a summary of the potential cumulative impact the proposals could generate is provided below.

## TRAFFIC

- 12.6 The likely development impacts have been considered cumulatively in so much that allowances have been made for growth in ambient traffic flows and for nearby developments that are considered to have the potential to materially alter the pattern of traffic.
- 12.7 In this respect, ambient traffic flows have been adjusted using industry-standard local adjustment factors and, in consultation with the local highway authority, allowances have been made for the permitted residential development of land east of Hamper's Lane.
- 12.8 However, whilst such allowances have been made for the purpose of capacity analyses, the EIA process has considered the environmental impacts against an unadjusted baseline traffic flow. This naturally over estimates the relative impacts of the scheme and hence the conclusions of the ES are founded on entirely robust data.

**No significant cumulative Traffic and Transport effects have been identified subject to proposed mitigation measures.**

## AIR QUALITY

- 12.9 A robust assessment of the air quality impacts of the proposed development has been provided within Chapter 7 of the Environmental Statement. Overall the effects of the proposed development on air quality have been considered to be negligible and no cumulative impacts have been identified.
- 12.10 Surrounding operations that introduce the potential for cumulative impacts include the neighbouring quarry operated by CEMEX to the west of the application site.
- 12.11 Activities associated with the extraction, storage and screening of sand at the application site have operated in tandem with the adjacent CEMEX quarry for a number of years. Over this period no significant cumulative impacts have been experienced by local receptors.

**No significant cumulative Air Quality effects have been identified subject to proposed mitigation measures.**

## NOISE

- 12.12 The noise assessment has considered the potential operational proposals to give rise to noise impacts at the closest noise-sensitive receptors.
- 12.13 Horsham District Council were consulted to confirm their views and policies on noise-related issues for the local area around the proposed development site and during email correspondence with the Environmental Health Department it was agreed:
- Due to the construction of a residential development adjacent to the site it was decided that weekday measurements would not be possible due to the influence these operations would have on the prevailing noise climate.
- 12.14 Noise surveys were therefore undertaken on a Saturday when the construction activities had ceased.
- 12.15 All the noise predictions were based on a worst-case situation when all the plant is working at its nearest approach to each noise sensitive receptor and during the initial period of the development when extraction and infilling activities will take place simultaneously. Once the extraction activities have ceased the predicted noise levels will almost certainly be lower at all the nearest noise-sensitive receptors.

**No significant cumulative Noise effects have been identified subject to proposed mitigation measures.**

## WATER ENVIRONMENT

- 12.16 With respect to geology, ground conditions and hydrology it is concluded that, should the mitigation measures detailed be implemented, there will be

no significant residual impacts or cumulative effects associated with the revised restoration.

**No significant cumulative Water Environment effects have been identified subject to proposed mitigation measures.**

## LANDSCAPE AND VISUAL

12.17 The nature of this application means that in the short term there will be little change to the visual amenity of the viewers where glimpsed views into the site are afforded. The site is largely enclosed within a wooded context and as such glimpsed views into the site are restricted from the CEMEX site to the west and A283 and the immediate site boundary to the east off Hampers Lane. In the long term, the proposed reinforcement of existing woodland at the site periphery, as well as the shallow re-profiling and seeding of existing vertical sand faces will help to further assimilate the site into its surroundings and be of benefit to the local landscape character and perceptions of it.

12.18 The long term intention is that the proposed restoration of the Washington Pit site will merge with the restoration of the CEMEX site to form an integrated part of the wider Sandgate Park Country Park. The impact of which would be beneficial to the landscape.

**No significant cumulative Landscape and Visual effects have been identified subject to proposed mitigation measures.**

## ECOLOGY

12.19 There are no other known activities or proposed activities at or within close proximity to the application site that would be likely to result in any significant cumulative impacts on the ecology of the local area at this current time.

12.20 It is therefore considered that no significant cumulative ecological impacts would occur.

**No significant cumulative Ecological effects have been identified subject to proposed mitigation measures.**

## SUMMARY

12.21 In summary no significant adverse cumulative effects have been identified as a result of the proposed development.