

1 CHAPTER 1: INTRODUCTION

1.1 Project Background

In March 2023, Lound Hive Limited ('the Applicant', 'Hive'), part of Hive Aggregates and the Hive Energy Group, applied to Nottinghamshire County Council ('NCC') in its capacity as minerals planning authority under the provisions of the Town and Country Planning Act 1990. This was to seek planning permission for the extraction of pulverised fuel ash ('PFA') from former ash disposal lagoons located near Lound, Retford, Nottinghamshire (DN22 8SG) (the 'Site') and their progressive restoration, along with associated development. The proposals are hereafter collectively referred to as the 'Proposed Development'.

The Proposed Development is also referred to as the 'Retford Circular Economy Project' ('RCEP'), and the planning application reference number is ES/4518.

The Proposed Development falls within Schedule 1 of the Town and Country Planning (Environmental Impact Assessment) Regulations 2017 ('the EIA Regulations') under Part 19 1.13 'Quarries [and open-cast mining] where the surface of the site exceeds 25 hectares', and therefore an Environmental Impact Assessment (EIA) was undertaken with the findings reported and submitted in the form of an Environmental Statement (ES) as part of the planning application alongside the following documents:

- Application Form & Location Plans;
- Planning Statement;
- Statement of Community Involvement; and
- Any other required procedural documents.

The ES was prepared in accordance with the EIA Regulations and was based on a Scoping Opinion received on 4th November 2022 from NCC.

As required by the EIA Regulations, the ES presented information on the likely significant environmental effects which may occur as a result of the Proposed Development. The ES also informed the reader of the nature of the Proposed Development, assessed any reasonable alternatives considered, and provided details of the measures proposed to protect the environment during site preparation, construction, operation, decommissioning, and restoration.

Following responses received as part of the post-submission consultation, and the receipt of a request for supplementary information under Regulation 25 of the Town and Country Planning (Environmental Impact Assessment) Regulations 2017, continued site investigations have been completed, and changes to the method of extracting PFA within Area A (Refer to Figure 1.3, Site Area Plan in Volume 2 of the ES), the Restoration Plan (Figure 7.12, Indicative Landscape Masterplan in Volume 2 of the ES), and amendments to the site layout of the Main Processing Site in Area C have been made. A copy of the Regulation 25 Letter, received on 2nd November 2023, can be found in ESA Volume 3, Technical Appendix 1.3.

The amended scheme is henceforth called the 'Amended Proposed Development'. This consequently has necessitated an update to the ES to present these changes and the associated likely environmental effects that may result from them, where these conclusions have changed from those detailed in the ES.

1.2 Purpose and Scope of the Addendum

This Environmental Statement Addendum (ESA) has been produced to provide an update to the RCEP ES. It is essential to review the majority of the ES alongside this ESA as it is not a stand-alone document, and references will be made to the ES throughout. Tables 1.2 and 1.3 indicate where figures and technical appendices in Volumes 2 and 3 of this ESA update those provided within the ES, and in these cases the ESA should supersede the information provided in the ES (although reference to the ES will be made where necessary). The purpose of the ESA is to:

- Describe the changes to the Proposed Development since the submission of the planning application, that have led to the Amended Proposed Development;
- Review and report on the significant effects arising from changes to baseline conditions, the cumulative situation, and the Amended Proposed Development, and
- Identify any additional beneficial or adverse impacts and recommend mitigation measures, if necessary. It should be noted that the changes to the Proposed Development have been made to reduce the environmental effects reported in the ES and not to introduce new additional adverse effects.

Where the information presented in the ES has been revised following consultation on the application, the information has been included within this addendum and constitutes:

- Summary of the consultation responses received and responded to within this ESA (Chapter 3);
- Description of the design changes to the Proposed Development that have resulted in the Amended Proposed Development (Chapter 5);
- Review and Re-assessment of the predicted likely impacts of the Amended Proposed Development for the following topics:
 - Landscape and Visual (Chapter 7);
 - Ecology and Ornithology (Chapter 8);
 - Hydrology, Hydrogeology, and Flood Risk (Chapter 9);
 - Ground Conditions and Contamination (Chapter 10);
 - Noise (Chapter 12); and
 - Air Quality (Chapter 13).
- An updated assessment of the interaction and accumulation of effects predicted with the Amended Proposed Development (Chapter 17); and
- A final summary of the conclusions detailed within the ESA for the Amended Proposed Development, including comparison with the ES conclusions and reiteration of the changes that have resulted in the Amended Proposed Development (Chapter 18).

The topics detailed in Table 1.1 have been scoped out of the ESA, and justification has been provided to explain why an updated assessment is not required.

Table 1.1: Topics Scoped Out of the Environmental Statement Addendum

ES Topic	Explanation
Traffic and Transport (Chapter 14)	The changes to the Proposed Development would not affect the traffic generated by the Amended Proposed Development. Also, note that the response received from NCC Highways on 30/03/2023 raises no objection to the Proposed Development. Therefore, there are no changes to the impacts on traffic and transport stated within Chapter 14 of the ES, and no updated assessment is required.
Climate Change (Chapter 15)	The changes to the Proposed Development would not affect the amount of PFA exported from the Site over the operational period, and there are no changes anticipated in the carbon balance of the Amended Proposed Development (both in terms of carbon saved from PFA use and carbon losses from construction, processing, etc.). No updates are therefore required for the assessment detailed in Chapter 15 of the ES.
Sustainability (Chapter 16)	The aim of the Amended Proposed Development remains unchanged with the extraction and exportation of PFA, thereby recycling a by-product of coal burning in power stations. The PFA would be used in the production

	of low carbon construction materials, and the same amount of PFA as detailed within the ES is expected to be exported when considering the Amended Proposed Development. Therefore, no updated assessment is required in terms of sustainability over and above that provided in Chapter 16 of the ES.
Cultural Heritage and Archaeology (Chapter 11)	The Amended Proposed Development would not break any additional ground than that detailed in the ES, and therefore there are no changes to the potential impacts on archaeology. With regard to changes to the Main Processing Site (Area C), the repositioned silos (as described in Section 5.5) would not impact on the setting of the Sutton-cum-Lound Conservation Area or the heritage assets within it, as these would be screened by the intervening vegetation with only glimpsed views of their tops in the distance. All other infrastructure would be screened by surrounding woodland, therefore there would be no changes to the setting of cultural heritage assets beyond those detailed in Volume 1, Chapter 11 of the ES.

As with the ES, this ESA is made up of the following volumes:

- **Volume 1** – ESA Text, comprising 18 Chapters;
- **Volume 2** – ESA Figures;
- **Volume 3** – ESA Technical Appendices (TAs); and
- **Volume 4** – ESA Non-Technical Summary (NTS).

The submission of the ESA will also be accompanied with updates to the previously submitted planning documents where required.

The ESA also provides updates to some of the Figures and TAs submitted as part of the ES. Chapter numbering has been kept consistent between the ES and ESA, and updated figures and technical appendices for the ESA use the same reference number as used in the ES. New figures and technical appendices are numbered as a continuation of those submitted within the ES. Where figures and TAs have been updated for the ESA, these supersede the corresponding figure / TA provided within the ES, although updated TAs may refer to the ES where information or conclusions have not changed. For ease of reference, Tables 1.2 and 1.3 list the figures and technical appendices which have been updated or are new for the ESA and provide their reference numbers so they can be located easily within the submitted documents.

Table 1.2: Figure comparison between the ES and ESA (found in Volume 2)

Topic	ES Figure	ESA Figure
Included within the ES		
Introduction (Chapter 1)	Figure 1.1 Site Location Plan	No Update – Refer to ES Reference
	Figure 1.2 Site Location Plan (Aerial)	No Update – Refer to ES Reference
	Figure 1.3 Site Area Plan (3 Areas Shown)	No Update – Refer to ES Reference
	Figure 1.4 Environmental Constraints Plan	No Update – Refer to ES Reference
EIA Methodology (Chapter 2)	Figure 2.1 Cumulative Developments	Updated in Figure 2.1 Cumulative Developments
Landscape and Visual Impact Assessment (Chapter 7)	Figure 7.1 Core LVIA Study Areas	No Update – Refer to ES Reference
	Figure 7.2 Aerial Mapping	No Update – Refer to ES Reference
	Figure 7.3 Topography	No Update – Refer to ES Reference
	Figure 7.4 Existing Bare Earth ZTV with Viewpoint Locations	Updated in Figure 7.4 Bare Earth ZTV with Viewpoint Locations

	Figure 7.5 Existing Screened ZTV with Viewpoint Locations	Updated in Figure 7.5 Screened ZTV with Viewpoint Locations
	Figure 7.6 Landscape Character Areas	No Update – Refer to ES Reference
	Figure 7.7 Landscape Designations	No Update – Refer to ES Reference
	Figure 7.8 Visual Amenity	No Update – Refer to ES Reference
	Figure 7.9 Transport and Recreational Routes	No Update – Refer to ES Reference
	Figure 7.10 Cumulative Sites	Updated in Figure 7.10 Cumulative Sites
	Figure 7.11 Existing Viewpoints – 1 to 12	No Update – Refer to ES Reference
	Figure 7.12 Indicative Landscape Masterplan	Updated in Figure 7.12 Updated Indicative Restoration Masterplan Figures 7.12a and 7.12b provide the same figure split into two and shown at a smaller scale, with one centered on the northern part of the Site, and one centered on the southern part.
Ecology and Ornithology (Chapter 8)	Figure 8.1 Site Boundary and Designated Sites	No Update – Refer to ES Reference
	Figure 8.2 Survey Areas and Access Restrictions	No Update – Refer to ES Reference
	Figure 8.3 SSSI Features in Relation to Site	No Update – Refer to ES Reference
Hydrology, Hydrogeology and Flood Risk (Chapter 9)	Figure 9.1 Core Study Area	No Update – Refer to ES Reference
	Figure 9.2 Wider Study Area	No Update – Refer to ES Reference
	Figure 9.3 Site Wide Drainage Plan	Updated in Figures 9.3a and 9.3b Site Wide Drainage Plan
	Figure 9.4 Schematic Cross Section of an Excavation	No Update – Refer to ES Reference
Noise (Chapter 12)	Figure 12.1 Noise Monitoring Locations	No Update – Refer to ES Reference
	Figure 12.2 Noise Sensitive Receptors	No Update – Refer to ES Reference
	Figure 12.3 Scenario 1	Updated in Figure 12.3 Extraction Scenario 1
	Figure 12.4 Scenario 2	Updated in Figure 12.4 Extraction Scenario 2
	Figure 12.5 Scenario 3	Updated in Figure 12.5 Extraction Scenario 3
	Figure 12.6 Scenario 4	Updated in Figure 12.6 Extraction Scenario 4
	Figure 12.7 Scenario 5	Updated in Figure 12.7 Extraction Scenario 5
	Figure 12.8 Scenario 6	Updated in Figure 12.8 Extraction Scenario 6
	Figure 12.9 Scenario 7	Updated in Figure 12.9 Extraction Scenario 7
	Figure 12.10 Scenario 8	Updated in Figure 12.10 Extraction Scenario 8

	Figure 12.11 Scenario 9	Updated in Figure 12.11 Extraction Scenario 9
	Figure 12.12 Scenario 10	Updated in Figure 12.12 Extraction Scenario 10
	Figure 12.13 Scenario 11	No Update – Refer to ES Reference
	Figure 12.14 Night-time	No Update – Refer to ES Reference
Air Quality (Chapter 13)	Figure 13.1 Representative Existing Sensitive Receptor Locations ER1 to ER8	No Update – Refer to ES Reference
	Figure 13.2 Representative Existing Sensitive Receptor Locations ER9 to ER11	No Update – Refer to ES Reference
	Figure 13.3 Representative Existing Sensitive Receptor Locations ER12 to ER16	No Update – Refer to ES Reference
	Figure 13.4 Representative Existing Sensitive Receptor Locations ER17 to ER18	No Update – Refer to ES Reference
	Figure 13.5 Representative Ecological Sensitive Receptor Locations	No Update – Refer to ES Reference
New for the ESA		
Project Description / Changes to the Proposed Development (Chapter 5)	N/A	Figure 5.1 Sandstone Bund Profiles
	N/A	Figure 5.2 Example Extraction Method Plan and Section
	N/A	Figure 5.3 Indicative Wet Working Process
	N/A	Figure 5.4 Indicative Proposed Landscape and Amenity Mitigation
Landscape and Visual Impact Assessment (Chapter 7)	N/A	Figure 7.13 Updated Indicative Restoration Masterplan – Annotations
	N/A	Figure 7.14 Updated Indicative Restoration Masterplan – Indicative Section Plan
	N/A	Figure 7.15 Illustrative View – Viewpoint 7
	N/A	Figure 7.16 Illustrative View – Viewpoint 10
	N/A	Figure 7.17 Illustrative View – Viewpoint 11
	N/A	Figure 7.18 Aerial Illustrating Indicative Landscape Mitigation
	N/A	Figure 7.19 Single Frame View of Silos
	N/A	Figure 7.20 Comparative ZTV
	N/A	Figure 7.21 Artists Impression Post Restoration Viewpoint 9
	N/A	Figure 7.22 Artists Impression Post Restoration Viewpoint 10
	N/A	Figure 7.23 Artists Impression Post Restoration Viewpoint 11
	N/A	Figure 8.4 Land Retained within the Site

Ecology and Ornithology (Chapter 8)	N/A	Figure 8.5 Bat Survey Results
	N/A	Figure 8.6 Reptile Survey Area
Noise (Chapter 12)	N/A	Figure 12.15 Low-Rise Bund Location
	N/A	Figure 12.16 Additional Noise Monitoring Locations
	N/A	Figure 12.17 Additional Noise Sensitive Receptors
	N/A	Figure 12.18 Soil Stripping HRP1
	N/A	Figure 12.19 Soil Stripping HRP2
	N/A	Figure 12.20 Soil Stripping HRP3
	N/A	Figure 12.21 Soil Stripping HRP4
	N/A	Figure 12.22 Soil Stripping HRP5
	N/A	Figure 12.23 Soil Stripping HRP6
	N/A	Figure 12.24 Soil Stripping LRP1
	N/A	Figure 12.25 Soil Stripping LRP2
	N/A	Figure 12.26 Soil Stripping LRP3
	N/A	Figure 12.27 Soil Stripping LRP4
	N/A	Figure 12.28 Soil Stripping LRP5
	N/A	Figure 12.29 Dig Down Locations
	N/A	Figure 12.30 Dig Down 1 HRP1
	N/A	Figure 12.31 Dig Down 2 HRP2
	N/A	Figure 12.32 Dig Down 3 LRP3
	N/A	Figure 12.33 Embankment Removal HRP1
	N/A	Figure 12.34 Embankment Removal HRP2
	N/A	Figure 12.35 Embankment Removal HRP3
	N/A	Figure 12.36 Embankment Removal HRP4
	N/A	Figure 12.37 Embankment Removal HRP5
N/A	Figure 12.38 Embankment Removal HRP6	
N/A	Figure 12.39 Embankment Removal LRP1	
N/A	Figure 12.40 Embankment Removal LRP2	
N/A	Figure 12.41 Embankment Removal LRP3	
N/A	Figure 12.42 Embankment Removal LRP4	
N/A	Figure 12.43 Embankment Removal LRP5	

Table 1.3: Technical Appendix comparison between the ES and ESA (found in Volume 3)

Topic	ES Technical Appendix	ESA Technical Appendix
Included within the ES		
Introduction (Chapter 1)	Technical Appendix 1.1 EIA Scoping Report	No Update – Refer to ES Reference
	Technical Appendix 1.2 EIA Scoping Opinion	No Update – Refer to ES Reference
EIA Technical Consultation (Chapter 3)	Technical Appendix 3.1 Social, Health and Wellbeing Impacts Technical Note	Updated but not included within the ESA; submitted as an independent report.
	Technical Appendix 3.2 Health Matrix	Updated in Technical Appendix 3.2 Health Technical Note and Health Matrix
Site Location and Description (Chapter 4)	Technical Appendix 4.1 PFA Lagoons	No Update – Refer to ES Reference
	Technical Appendix 4.2 Geological Cross Section Figure	No Update – Refer to ES Reference
	Technical Appendix 4.3 Site Photos	No Update – Refer to ES Reference
Project Description / Changes to the Proposed Development (Chapter 5)	Technical Appendix 5.1 Site Layout Plans	Updated in Technical Appendix 5.1 Site Layout Plans
	Technical Appendix 5.2 Site Phasing Plans	Updated in Technical Appendix 5.2 Site Phasing Plans
	Technical Appendix 5.3 oCEMP	Updated in Technical Appendix 5.3 oCEMP
Landscape and Visual Impact Assessment (Chapter 7)	Technical Appendix 7.1 LVIA Methodology	No Update – Refer to ES Reference
	Technical Appendix 7.2 Visual Assessment Methodology	No Update – Refer to ES Reference
	Technical Appendix 7.3 Cumulative LVIA Methodology	No Update – Refer to ES Reference
	Technical Appendix 7.4 Zone of Theoretical Visibility (ZTV) Methodology	No Update – Refer to ES Reference
	Technical Appendix 7.5 Cumulative LVIA (CMLVIA) Tables	No Update – Refer to ES Reference
	Technical Appendix 7.6 Landscape Analysis Tables	No Update – Refer to ES Reference
	Technical Appendix 7.7 Visual Analysis Tables	No Update – Refer to ES Reference
	Technical Appendix 7.8 Arboricultural Survey	No Update – Refer to ES Reference
Ecology and Ornithology (Chapter 8)	Technical Appendix 8.1 Ecology Survey Report	No Update – Refer to ES Reference
	Technical Appendix 8.2 Badger Annex (Confidential)	No Update – Refer to ES Reference
	Technical Appendix 8.3 Ornithology Survey Report	No Update – Refer to ES Reference
	Technical Appendix 8.4 Biodiversity Net Gain Assessment	Updated in Technical Appendix 8.4 Updated Biodiversity Net Gain Assessment

	Technical Appendix 8.5 Outline Restoration Scheme	ES TA now superseded. Updated information included in Chapter 8 of this ESA.
	Technical Appendix 8.6 Outline Monitoring and Mitigation Plan	No update – Refer to ES Reference and find updated information in Chapter 8 of this ESA.
Hydrology, Hydrogeology and Flood Risk (Chapter 9)	Technical Appendix 9.1 Outline Water Environmental Management Plan	Updated in Technical Appendix 9.1 Revised Water Environmental Management Plan
	Technical Appendix 9.2 Flood Risk Assessment	No Update – Refer to ES Reference
	Technical Appendix 9.3 Drainage Management Plan	Updated in Technical Appendix 9.3 Revised Drainage Management Plan
Ground Conditions and Contamination (Chapter 10)	Technical Appendix 10.1 Preliminary Land Quality Risk Assessment	Updated in Technical Appendix 10.1 Updated Preliminary Land Quality Risk Assessment
	Technical Appendix 10.2 ALC Survey Area A	No Update – Refer to ES Reference
	Technical Appendix 10.3 ALC Survey Area B	No Update – Refer to ES Reference
Noise (Chapter 12)	Technical Appendix 12.1 Construction and Operational Plant List	Updated in Technical Appendix 12.1 Construction and Operational Plant Assumptions
Air Quality (Chapter 13)	Technical Appendix 13.1 Glossary of Terms	No Update – Refer to ES Reference
	Technical Appendix 13.2 Air Quality Standards	No Update – Refer to ES Reference
	Technical Appendix 13.3 2019 Doncaster Sheffield Airport Wind Rose	No Update – Refer to ES Reference
	Technical Appendix 13.4 Proposed Development – Representative Existing Sensitive Receptor Locations	No Update – Refer to ES Reference
	Technical Appendix 13.5 ACCON Air Quality Assessment	No Update – Refer to ES Reference
	Technical Appendix 13.6 Lound PFA Processing Facility – Dust Impact Assessment	Updated in Technical Appendix 13.6 Updated Dust Impact Assessment
	Technical Appendix 13.7 Lound PFA Processing Facility – Dust Management Plan	Updated in Technical Appendix 13.7 Updated Dust Management and Monitoring Plan
Traffic and Transport (Chapter 14 in ES and scoped out of ESA)	Technical Appendix 14.1 Transport Statement	No Update – Refer to ES Reference
Climate Change (Chapter 15 in ES and scoped out of ESA)	Technical Appendix 15.1 GHG Technical Methodology and Data	No Update – Refer to ES Reference
New for the ESA		
Introduction (Chapter 1)	N/A	Technical Appendix 1.3 Regulation 25 Letter
Changes to the Proposed Development (Chapter 5)	N/A	Technical Appendix 5.4 Site Restoration Plans
Ecology and Ornithology (Chapter 8)	N/A	Technical Appendix 8.7 Updated Habitat Data

	N/A	Technical Appendix 8.8 Bat Roost Assessment
	N/A	Technical Appendix 8.9 Invertebrate Habitat Assessment
Hydrology, Hydrogeology and Flood Risk (Chapter 9)	N/A	Technical Appendix 9.4 Environment Agency Flood Risk Slide Deck
	N/A	Technical Appendix 9.5 RCEP PFA Lagoons – Bund Stability Analysis
Ground Conditions and Contamination (Chapter 10)	N/A	Technical Appendix 10.4 PFA Testing Details and Results
Noise (Chapter 12)	N/A	Technical Appendix 12.2 Interim Noise Technical Note (May 2023)
Air Quality (Chapter 13)	N/A	Technical Appendix 13.8 Air Emissions Risk Assessment

1.3 Availability of the Environmental Statement

In accordance with Part 5 of the EIA Regulations, copies of the ESA will be available for inspection by the public, notice of which will be published in the Worksop Guardian, and in a newspaper that is relevant and available in the locality of the Amended Proposed Development (likely the Retford Times as with the ES).

Electronic copies of the ESA, supporting documentation, and the original application can be accessed and viewed on the Nottinghamshire County Council website at: [Planning applications | Nottinghamshire County Council](#) and the Project website: [Retford Circular Economy Project \(retfordcep.co.uk\)](#).

Any representations to the ESA should be made directly to NCC via their website at [View and comment on planning applications | Nottinghamshire County Council](#) or by email to development.management@nottscc.gov.uk.

Hard copies of the ESA may be obtained at a reasonable charge reflecting the cost of making the relevant information available. To request a copy of the ESA, please contact:

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