



Retford Circular Economy Project Environmental Statement Addendum – Volume 3 Technical Appendices

Technical Appendix 13.6: Updated Dust Impact Assessment

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RETFORD CIRCULAR ECONOMY PROJECT

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ADDENDUM

Following the submission of the Dust Assessment in February 2023, Lound Hive Limited (LHL) has made a number of revisions to the extraction scheme which are deemed beneficial with regard to dust emissions and dust management. Following the amendments to the operations and dust control measures, the conclusions of the assessment are considered to remain the same, in that the operations would result in a 'not significant' effect with regard to dust impacts in the Site locale.

The principal changes to the Proposed Development with regard to its potential for dust generation are summarised below in Table 1.

February 2023 Submission	October 2023 Revision	Impact on Dust Assessment
Extraction Area A split into 11 working phases	Extraction phases further divided into smaller Micro-Phases of 0.5 – 1.0 ha (<1% of total extraction area)	Beneficial Reduced spatial extent of dust source (soil stripping, extraction and exposed ground)
Extracted PFA transferred to fixed Pre-Processing Area (Temporary Processing Areas 1- 3) in articulated dump trucks on unpaved haulage routes	Mobile Screening plant located in proximity to working face; relocated as extraction progresses	Beneficial Reduction in dust source and reduced onsite haulage movements on unpaved roads.
Three semi-fixed Pre-Processing Areas of 3,000 – 6,000m ² (Temporary Processing Areas 1- 3) comprising storage, screening and crushing plant	One single mobile screen that would be relocated with the active working face, located a minimum of 100m from Site boundary Mobile screen plant would move along working face as extraction progresses, located within extraction void	Beneficial Reduced spatial extent of dust source, increased distance to receptor: material deposited directly into reception hopper at working face. Location within extraction void would ensure embankments utilised for screening
Soils stripped and stored in centralised area	Soils stripped from each Micro-Phase would be stored within active phase for use in progressive replacement. Storage of soils in long-term soil store would be a contingency measure when absolutely necessary. Storage areas and bunds would be seeded with wildflower mix	Beneficial Reduction in dust source: reduced onsite haulage movements on unpaved routes and stable storage locations
PFA stockpiling (extracted): within the Pre-Processing Area, maximum footprint of 2,000m ² (total of extracted and post- screening PFA)	Extracted PFA stored on a temporary basis for acceptance inspection prior to being fed into pre-screening hopper. Maximum stockpile: 150m ² , 3m high, impermeable base.	Beneficial Reduction in dust source: significant reduction in stockpile size of extracted PFA.

Table 1: Amendments to Working Scheme



February 2023 Submission	October 2023 Revision	Impact on Dust Assessment
PFA stockpiling (post-screening): within the Pre-Processing Area, maximum footprint of 2,000m ² (total of extracted and post- screening PFA)	Transferred directly from screen into conveyor hopper for enclosed transfer to Material Storage Building. Or, if there is a requirement for stockpiling then Maximum stockpile: 150 m ² , 3 m high, impermeable base.	BeneficialRemoval of dust source: norequirementtoscreened PFA, fed directly toMaterialStorageBuilding.Restrictionsonstockpilingmagnitude and location.
Oversized PFA from Screen Plant stockpiled within the extraction area	Oversized PFA from Screen Plant stockpiled in single designated area within extraction area, >100m from Site boundary with a maximum footprint of 150m ² x 3m high.	Beneficial Restrictions on stockpiling magnitude and location

Changes to the Assessment:

The following additional control measures have been recommended for implementation, all of which are detailed within the Dust Management and Monitoring Plan (DMMP), see Appendix 13.7)

- Additional screening along northern and southern boundary for the duration of extraction activities in the Low-Rise, increasing screening to around 5m at locations closest to sensitive receptors <u>(combination</u> <u>of working depth and screen bunds/fencing)</u>;
- A sealed screening bund would remain along the western boundary of each of the phases until extraction has been complete, ensuring the working phases are not susceptible to prevailing winds from the west;
- Working area to be dampened down during extraction activities and sealed with soil cement (or similar) or compacted overnight and on weekends during period of dry weather ('dry days' = days with <0.2mm rainfall);
- Unvegetated areas of soil to be dampened down twice daily on 'dry days';
- Automated fogging dust suppression system installed, operating 24/7 when insufficient rainfall and / or high winds that would cover extraction, screening and PFA stockpiling areas;
- A dust monitoring scheme for dust deposition off-site (see the Dust Management and Monitoring Plan); and
- A series of contingency measures, as detailed in the DMMP.

The amendments to the working scheme as detailed in Table 1 are all considered to be beneficial, with significant reductions in terms of the potential for dust emissions when compared to the original scheme. All other aspects of the working scheme are considered to remain the same.

Taking into account the reduction in dust potential from the changes to the working scheme together with the additional dust control and management measures proposed, the overall conclusion of the original assessment of a 'not significant' effect with regard to dust impacts is considered to remain.

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