

Greater Dublin Drainage Project Addendum

**Environmental Impact Assessment Report Addendum:
Volume 3A Part A of 6**

Chapter 25A Summary of Residual Impacts

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25. Summary of Residual Impacts

25.1 Introduction

This Addendum Chapter summarises the additional residual impacts resulting from the updated assessment carried out for this Environmental Impact Assessment Report (EIAR) Addendum (marked as 'New'), and any amended impacts to those identified in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application (marked as 'Amendment to the EIAR in the 2018 planning application'), which will result from the Construction Phase and Operational Phase of the Greater Dublin Drainage Project (hereafter referred to as the Proposed Project), as identified as part of the Addendum assessment.

For full Addendum impact assessments, please refer to Chapter 6A to Chapter 21A in Volume 3A Part A of this EIAR Addendum. Residual impacts are the final or intended impacts which occur after the proposed mitigation measures have been implemented. They refer to the degree of change that will occur after the proposed mitigation measures have taken effect. All other (Not Significant or Imperceptible) impacts are detailed within Chapter 6A to Chapter 21A in Volume 3A Part A of this EIAR Addendum.

Table 25.1 presents the residual impact significance following implementation of mitigation, as summarised in Chapter 24 (Summary of Mitigation Measures) in Volume 3A Part A of the EIAR in the 2018 planning application, as supplemented by Chapter 24A (Summary of Mitigation Measures) in Volume 3A Part A of the EIAR Addendum. The additional residual impacts presented in this Addendum Chapter are adverse unless otherwise stated as positive / beneficial. The terminology used in this Addendum Chapter to describe the residual impact significance is a reflection of the assessment terminology and guidelines used within Chapter 6A to Chapter 21A. While the terminology in the Environmental Protection Agency (EPA) Guidelines on the Information to be Contained in Environmental Impact Assessment Reports (EPA 2022) is predominantly used, some Addendum chapters use discipline specific guidelines, and this terminology is presented within this summary chapter to maintain consistency with the assessments of Chapter 6A to Chapter 21A.

This Chapter should be read in conjunction with Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. Please note that Section 18A in Volume 4A Part A of this EIAR Addendum discusses residual impacts in relation to the proposed Regional Biosolids Storage Facility (RBSF) element of the Proposed Project.

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Table 25.1: Summary of Additional Residual Impacts for the Construction and Operational Phases, as Identified in the EIAR Addendum

| Environmental Aspect | Impact Description | Impact Significance (Pre-Mitigation) | Residual Significance (Post-Mitigation) |
|--|--|--------------------------------------|---|
| Population and Human Health: Population | Construction Phase | | |
| | Economic Activity - traffic restrictions and a temporary reduction in amenity for Holiday Inn Hotel Dublin Airport (New) | Negative, Slight and Temporary | Negative, Slight and Temporary |
| | Tourism, Public Amenities and Community Infrastructure - Baldoyle to Portmarnock Greenway amenity (New) | Negative, Slight and Temporary | Negative, Slight and Temporary |
| | Operational Phase | | |
| | No additional Operational Phase residual impacts have been identified as part of the EIAR Addendum assessment for population. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Population and Human Health: Human Health | Construction Phase and Operational Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for human health. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Marine Water Quality | Construction Phase and Operational Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for marine water quality. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Biodiversity (Marine) | Construction Phase and Operational Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for biodiversity (marine). The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Biodiversity (Marine Ornithology) | Construction Phase and Operational Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for biodiversity (marine ornithology). The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Biodiversity (Terrestrial and Freshwater Aquatic) | Construction Phase | | |
| | Terrestrial Biodiversity | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for terrestrial biodiversity. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application, with the exception of the residual impact on the following categories which will be improved compared to those presented in Chapter 11 (Biodiversity - Terrestrial and Freshwater Aquatic) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| | Fixed dune habitat at Portmarnock – Construction (Amendment to the EIAR in the 2018 planning application) | No Impact | Minor beneficial |
| | Operational Phase | | |
| | Terrestrial Biodiversity | | |
| No additional residual impacts have been identified as part of the EIAR Addendum assessment for terrestrial biodiversity. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application, with the exception of the residual impact on the following categories which will be improved compared to those presented in Chapter 11 (Biodiversity - Terrestrial and Freshwater Aquatic) in Volume 3 Part A of the EIAR in the 2018 planning application. | | | |
| | Fixed dune habitat at Portmarnock – Operation (Amendment to the EIAR in the 2018 planning application) | No Impact | Minor beneficial |

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| Environmental Aspect | Impact Description | Impact Significance (Pre-Mitigation) | Residual Significance (Post-Mitigation) |
|--------------------------------|--|---|--|
| | (Mixed) broadleaved woodland, scrub, hedgerows and treelines' – Operation (Amendment to the EIAR in the 2018 planning application) | No Impact | Minor beneficial |
| | Construction Phase and Operational Phase | | |
| | Freshwater Biodiversity | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for freshwater aquatic biodiversity. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Landscape and Visual | Construction Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for landscape and visual for the Construction Phase. The residual impacts for the Construction Phase remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| | Operational Phase | | |
| | VP-5: Visual Impact on Springhill House (Amendment to the EIAR in the 2018 planning application) | Slight (previously Moderate to Slight in the EIAR in the 2018 planning application) | Slight to Imperceptible (previously Slight in the EIAR in the 2018 planning application) |
| | No further amendments or new additional residual impacts have been identified as part of the EIAR Addendum assessment for landscape and visual for the Operational Phase. The residual impacts for the Operational Phase remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Traffic and Transport | Construction Phase and Operational Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for traffic and transport. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Air Quality, Odour and Climate | Construction Phase and Operational Phase | | |
| | Air Quality and Odour | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for air quality and odour. The residual impacts for air quality and odour remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| | Construction Phase | | |
| | Climate (Carbon) (New) | | |
| | Embodied Carbon | Moderate Adverse, Significant and Short-Term | Minor Adverse, Not Significant and Short-Term |
| | Traffic Emissions | Moderate Adverse, Significant and Short-Term | Minor Adverse, Not Significant and Short-Term |
| | Combined Construction Emissions | Moderate Adverse, Significant and Short-Term | Minor Adverse, Not Significant and Short-Term |
| | Operational Phase | | |
| | Climate (Carbon) (New) | | |
| | Process / Fugitive Emissions | Major Adverse, Significant and Long-Term | Moderate, Significant and Long-Term |
| Energy Emissions | Moderate Adverse, Significant and Long-Term | Minor Adverse, Not Significant and Long-Term | |
| Biosolids Emissions | Moderate Adverse, Significant and Long-Term | Minor to Moderate, Significant and Long-Term | |

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| Environmental Aspect | Impact Description | Impact Significance (Pre-Mitigation) | Residual Significance (Post-Mitigation) |
|---|---|--|--|
| | Chemical Emissions | Moderate Adverse, Significant and Long-Term | Minor to Moderate, Significant and Long-Term |
| | Combined Operational Phase | Moderate to Major Adverse, Significant and Long-Term | Moderate Adverse, Significant and Long-Term |
| Noise and Vibration | Construction Phase and Operational Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for noise and vibration. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Archaeological, Architectural and Cultural Heritage | Construction Phase | | |
| | No additional Construction Phase residual impacts have been identified as part of the EIAR Addendum assessment for archaeological, architectural and cultural heritage. The Construction Phase residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application, with the exception that AH 44 will no longer be directly impacted by the Proposed Project as it has been preserved in-situ by another development). | | |
| | Operational Phase | | |
| | Impacts on Recorded Monuments –Proposed Wastewater Treatment Plant Site (AH 67 and Ah68 in Table 16.7 in Chapter 16A in Volume 3A Part A of the EIAR Addendum (New) | Slight Negative | Slight Negative |
| | No further amendments or new additional residual impacts have been identified as part of the EIAR Addendum assessment for archaeological, architectural and cultural heritage for the Operational Phase. The residual impacts for the Operational Phase remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Hydrology and Hydrogeology | Construction Phase and Operational Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for hydrology and hydrogeology. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Soils and Geology | Construction Phase and Operational Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for soils and geology. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Agronomy | Construction Phase and Operational Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for agronomy. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Waste | Construction Phase and Operational Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for waste. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |
| Material Assets | Construction Phase and Operational Phase | | |
| | No additional residual impacts have been identified as part of the EIAR Addendum assessment for material assets. The residual impacts remain as outlined in Chapter 25 (Summary of Residual Impacts) in Volume 3 Part A of the EIAR in the 2018 planning application. | | |

25.2 References

EPA (2022). Guidelines on the Information to be Contained in Environmental Impact Assessment Reports