

## 17.0 Cumulative Effects (Updated Effect Interactions Tables)

## 17.1 Assessment of Intra-Project Cumulative Effects

- 17.1.1 As there is no established EIA methodology for assessing and quantifying the combined effects of individual effects on sensitive receptors, the following approach therefore uses the defined residual effects outlined with the Technical Chapters of the ES to determine the potential for interactions between effects, and consequently the potential for significant intraproject cumulative effects.
- 17.1.2 This section provides an assessment of potential effect interactions between the relevant environmental topics on identified sensitive receptors during construction and operation of the Proposed Development. The results of the assessment presented in this section are following implementation of the recommended mitigation measures, as described with Chapters 6 16 and Volume 2.
- 17.1.3 The effect interactions presented in **Tables 17.10** and **17.11** below are based on professional judgements made by technical specialists who have completed the technical assessments, taking into account the baseline conditions at the Site and in the surrounding area together with the findings from the various technical studies. To ensure a proportionate approach, both negligible and neutral effects have been disregarded.
- 17.1.4 In terms of effect interactions, the following sensitive receptors have been identified due to their sensitivity as assessed in this ES:
  - Existing commercial uses on-site and in the area;
  - Future on-site commercial occupants;
  - Existing residential uses in the surrounding area;
  - Future on-site residential uses;
  - Existing below and above ground heritage assets;
  - Social Infrastructure;
  - Existing transport infrastructure.

## **Effect Interactions During Demolition and Construction**

17.1.5 **Table 17.10** comprises a summary matrix for the construction works, showing the potential effect interactions following implementation of the recommended mitigation measures, based on the assessments presented within Chapter 6 – 16 and Volume 2



Table 17.10: Matrix of Residual Effect Interactions – Demolition and Construction Phase

Receptor	Residual Effect	Scale and Nature of Residual Effects	Potential for Intra-Project Cumulative Effects / Effect Interactions
Residential Dwellings & Commercial Premises	Noise and Vibration  Noise from construction works (Receptors 1 & 2)	Major Negative (Significant)	No.  All effects are related to Noise and Vibration.
	Noise and Vibration  Noise from construction works (Receptors 3, 4, 6, & 24)	Moderate Negative (Significant)	
	Noise and Vibration  Noise from construction works (Receptors 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 & 23)	Minor Negative (Not Significant)	
	Noise and Vibration  Vibration from construction works (Receptor 2)	Moderate Negative (Significant)	
	Noise and Vibration  Vibration from construction works (Receptor 1, 3, 4, 5, 8, 10, 11, 12, 13, 14, 24)	Minor / Moderate Negative (Not Significant / Significant)	

	_		Plowman Craven
	Noise and Vibration  Vibration from construction works (Receptor 6, 7, 9, 15, 18, 19, 21, 22, 23)	Minor Negative (Not Significant)	
Archaeology	Archaeology  Loss of fragmented archaeological remains of early/mid-20th century development.  Loss of the bases of agricultural features such as field boundaries	Minor Negative (Not Significant)	No.  No Effects to interact with.
On-site Habitats	Ecology Scattered trees, introduced shrub and scattered scrub	Minor Positive (Not Significant)	No.  No Effects to interact with.
Global Climate	Climate Change Impacts from lifecycle stages A1 – A5	Minor Negative (Not Significant)	No.  No Effects to interact with.
Existing Employment	Socio-economics  Loss of existing employment on-	Minor Negative (Not Significant)	No.  No Effects to interact with.

O2 Masterplan Site, Finchley Road Volume 1: Environmental Statement – Main Text Chapter 17: Cumulative Effects

Site



Table 17.11: Matrix of Residual Effect Interactions – Operational Phase

Receptor	Residual Effect	Scale and Nature of Residual Effects	Potential for Intra-Project Cumulative Effects / Effect Interactions
Residential Dwellings	Noise and Vibration  Noise from Building Services (Receptor 24, 6, 8, 16 & 17))  Noise and Vibration  Internal Noise within the Proposed Development (Receptor 24)  Noise and Vibration  External Noise across the Proposed Development (Receptor 24)	Minor Negative (Not Significant)  Minor Negative (Not Significant)  Minor Negative (Not Significant)	Yes. In relation to  Minor Negative Effects to Residential receptors from Noise and Vibration  With, Moderate to Major Negative Effects on Daylight / Sunlight to Residential Receptors.
	Potential loss of daylight and / or sunlight (3, 5, 7, 9 Blackburn Road, Asher House, Nido House, 73 Lithos Road – 67 Lithos Road (Odd and Even Numbers), 66 Lithos Road - 54 Lithos Road (Odd and Even Numbers), 54 A-D Rosemont Road, 32-48 Rosemont Road (Even Numbers Only), 30 Rosemont Road, 26 Rosemont Road, 24 A-C Rosemont Road, 22	Moderate to Major Negative (Significant)	

			Plowman Craven
	A-C Rosemont Road, 20 A-C Rosemont Road, 16 Rosemont Road, Holiday Inn (Hotel), 142- 150 Finchley Road, 17 Canfield Place, 23-27 Canfield Place, 1- 108 Broadfield, 170-182 Broadhurst Gardens).		
	Daylight and Sunlight  Potential loss of daylight and / or sunlight (8 Rosemont Road, 2 Rosemont Road, 140 Finchley Road, 164 Broadhurst Gardens, 166 Broadhurst Gardens, 168 Broadhurst Gardens).	Minor Negative (Not Significant)	
Train Divers	Daylight and Sunlight	Minor Negative (Not Significant)	No.
	Potential for solar glare occurrence for train drivers (View point 01, 02, 03, 04, 07, 08, 09, 13)		No Effects to interact with
Pedestrians & Cyclists	Transport  Decrease in severance, fear and intimidation.	Moderate Positive (Significant)	No.  All effects are related to Transport.
	Transport  Decrease in delay.	Minor Positive (Not Significant)	
Surface Water	Water Resources	Minor Positive (Not Significant)	No.

O2 Masterplan Site, Finchley Road Volume 1: Environmental Statement – Main Text Chapter 17: Cumulative Effects Plowman Craven 43284 January 2022

		100
Plo	wman	Craven

			I lowillall clavell
	No increase in runoff & no reduction in quality of runoff.		No Effects to interact with
Foul Sewerage	Water Resources Increased loading on the sewer system.	Minor Negative (Not Significant)	No.  No Effects to interact with
Public Realm	Wind Microclimate	Major Negative (Significant)	Yes.
	Socio-economics Open Space Provision	Moderate Negative (Significant)	In relation to:  Major Negative effect to
	Socio-economics  Provision of Playspace.	Minor Positive (Not Significant)	Moderate Negative effects to Open Space Provision  Minor Positive effects to Playspace Provision
Housing Stock	Socio-economics Increased housing provision.	Moderate Positive (Significant)	No.  No Effects to interact with.
Healthcare	Socio-economics  Provision of medical facility onsite.	Moderate Positive (Significant)	No.  No Effects to interact with.
Local Economy	Socio-economics Increase spending in the area.	Moderate Positive (Significant)	No.  No Effects to interact with
Greenhouse Gases / Global Climate	Climate Change		No.

O2 Masterplan Site, Finchley Road Volume 1: Environmental Statement – Main Text Chapter 17: Cumulative Effects

Plowman Craven 43284 January 2022

			Plowman Craven
	Operational Energy.	Minor Negative (Not Significant)	All effects are related to
	Lifecycle stages B1 – B5.	Minor Negative (Not Significant)	Greenhouse Gases / Global Climate
	Operational Traffic.	Minor Positive. (Not Significant)	
Townscape Character Areas	Townscape and Visual	Moderate Beneficial (Significant)	Yes.
	Improvements and enhancements to the quality of TCA1.		In relation to Beneficial Townscape effects to Townscape Character Areas
Local and longer distance views	Townscape and Visual Improvement and enhancement to	Moderate to Major Neutral (Significant)	With, Moderate to Major Neutral effects to Local and longer

views.

distance views.

