# 11. SUMMARY AND RESIDUAL EFFECTS

#### Introduction

11.1 This chapter summarises the mitigation measures and residual effects identified in each of the technical assessments included in the ES, which has been prepared to accompany the application for:

"Hybrid Planning Application for a mixed use development, including demolition of existing buildings and erection of up to 2,170 residential units (Use Class C3), 290sqm of flexible office floorspace (Use Class E), 1,395sqm of flexible retail/commercial floorspace (Use Class E/Sui Generis), 1,250sqm community floorspace (Use Class F2), new publicly accessible open space and associated access, servicing, landscaping and works

Detailed permission is sought for Phase 1 for erection of 452 residential units (Use Class C3), 1,250sqm community floorspace (Use Class F2), 290sqm of flexible office floorspace (Use Class E), 395sqm of flexible retail/commercial floorspace (Use Class E/Sui Generis), new publicly accessible open space and associated access, servicing, parking, landscaping works including tree removal, refuse/recycling and bicycle storage, energy centre and works

Outline permission (with appearance and landscaping reserved) is sought for the remainder of the development ("the Proposed Development")."

11.2 The Development has been subject to an iterative design process. As this process progressed measures have been incorporated into the development design in order to avoid, reduce or offset significant environmental effects. Where this has not been possible, further mitigation measures have been proposed and are set out in Table 11.1 below along with the residual effects of the Development following mitigation.

**Table 11.1: Significance Table** 

Stage	Effect Mitigation		Residual Significance			
Population and Human Health						
Construction	Effects on Employment	None Required.	Minor - Moderate Beneficial			
	Effects on Wider Human Health	Effects would be localised and temporary and controlled using measures set out in the Construction Environmental Management Plan (CEMP) to be secured by planning condition.	Negligible			
Completed Development	Effects on Population and Housing	None required.	Moderate Beneficial			

Chama	Effort	Mitigation	Besidual Cignificance
Stage	Effect	Mitigation	Residual Significance
	Effects on		Negligible
	Employment		
	Effects on		Negligible
	Primary		
	Healthcare		
	Effects on		Negligible
	Primary		
	Education		
	Effects on	Financial contributions	Negligible
	Secondary	required.	
	Education		
	Effects on	No mitigation required as	Minor Beneficial
	Wider Human	all measures designed into	
	Health	the Development.	
	Effects on	None required.	Minor Beneficial
	Public Open		
	Space		
	1	Townscape and Visual Effect	
Construction	Effects on	Protection of existing	Neutral to Moderate Adverse
	Townscape	vegetation and	
	Character	establishment of the	
	Effects on	landscape proposals at an	Neutral to Major Adverse
	Visual	early stage.	
	Receptors	Locating Site compounds	
		and material stockpiles	
		away from sensitive	
		receptors and limiting the	
		movement of stockpiles.	
		Control of lighting and	
		working hours at the Site.	
		Providing hoardings to	
		limit the visibility and conspicuousness of ground	
		level activities and	
		minimising the duration of	
		tall plant and machinery	
		on the Site.	
Completed	Effects on	The adoption of the design	Neutral to Minor Beneficial
Development	Townscape	codes as set out in the	Neutral to Millor Belleficial
Development	Character	accompanying planning	
	Effects on	application material, which	Minor Adverse to Moderate
	Visual	includes utilising a	Beneficial
	Receptors	material and tonality	Beneficial
	Receptors	palette that reflects or	
		complements the built	
		vernacular of the	
		surrounding townscape,	
		reinforced with a	
		consistent building	
		typology and	
		elevation/fenestration	
		strategy within particular	
		zones of the Site, along	
		with the enhancement of	
		vegetation within the Site,	
		through the provision of	

Stage	Effect	Mitigation	Residual Significance
		advanced planting where practicable.  Ongoing management and maintenance of hard and	
		soft landscaping measures.	
Construction	Effects from Dust Soiling Impacts on Human Health	Air Quality  Recommended dust controls (see Table 7.21) comprising standard mitigation measures,	Negligible
			Negligible
	Effects from Trackout	including but not limited to:  Development of a Dust Management Plan (DMP); Daily on-site and off-site inspection where receptors are nearby to monitor dust; Cover any stockpiles to prevent wind whipping; Plan Site layout so that machinery and dust causing activities are located away from receptors; Avoid Idling Vehicles; Water suppression equipment; and Hard surface haul	Negligible
		routes ad wheel wash facilitates.	
Completed Development	Effects from On-site Human Exposure	None required.	Negligible
	Effects on Existing Human Receptors	<ul> <li>Provision of Electric Vehicle Charging Points or instruction provision for al parking bays;</li> <li>Provision of secure cycle storage infrastructure;</li> <li>Implementation of Travel Plans; and</li> <li>Provision of measures to support sustainable transport modes</li> </ul>	

Stage	Effect	Mitigation	Residual Significance	
		including features to encourage sustainable travel methods e.g. cycle path links, pedestrian links, bus stops, etc.		
		Biodiversity		
Construction	Effects on Statutory designated sites	Implementation of a CEMP to be secured by planning condition.	Negligible	
	Effects on non-statutory designated sites		Negligible	
	Effects on Scattered Trees	Implementation of Ecological Management Plan (EMP).	Positive	
	Effects on Introduced shrub		Positive	
	Effects on Bats - Foraging and Commuting bats		Positive	
	Effects on Bats - Roosting bats (Phase 1)	None required.	Positive	
	Effects on Bats - Roosting (Phase 2 - 5	Update Preliminary Ecological Appraisal (PEA) and Bat Scoping Surveys for outline element of the Development (phases 2-5), as part of Reserved Matters (RM) planning submissions.	Negligible	
	Effects on Birds - Killing and Injuring	Timing of works or ecologist supervision.	Negligible	
	Effects on Birds - Loss of Nesting and Foraging Habitat	Provision of bird boxes including house sparrow terraces.	Positive	
	Effects on Invertebrates	Provision of log piles and stag beetle loggeries.	Positive	
	Effects on Hedgehog – Killing and Injury	Supervision of clearance work.	Negligible	
	Effects on Hedgehog- loss of sheltering and foraging	None Required.	Positive	

Stage	Effect	Mitigation	Residual Significance
	habitat		
Completed Development	Effects on Statutory designated sites	None required.	Negligible
	Effects on Non-statutory designated sites		Negligible
	Effects on Scattered Trees		Negligible
	Effects on Introduced Shrub		No impact
	Effects on Bats - Foraging and Commuting	Bat sensitive lighting design.	Positive
	Effects on Bats - Roosting	None required.	No impact
	Effects on Birds		No impact
	Effects on Invertebrates		No impact
	Effects on Hedgehog		No impact
	Day	light, Sunlight and Overshad	
Construction	Effects on Daylight, Sunlight and Overshadowing during demolition.	ight, Sunlight and Overshade None required.	Negligible
	Effects on Daylight, Sunlight and Overshadowing during demolition. Effects on Daylight, Sunlight and Overshadowing to surrounding receptors during construction.	None required.  Those measures proposed for the completed Development.	Negligible  Negligible to Major Adverse
Completed Development	Effects on Daylight, Sunlight and Overshadowing during demolition. Effects on Daylight, Sunlight and Overshadowing to surrounding receptors during	None required.  Those measures proposed for the completed	Negligible

Stage	Effect	Mitigation	Residual Significance
	Sunlight to surrounding residential properties.	including articulation of blocks and inclusion of gaps to minimise sunlight effects.	(1 building experiences a Negligible effect, 21 buildings experience a Negligible to Minor Adverse effect, 4 buildings experience Minor Adverse effect and 5 buildings experience Moderate Adverse effect).
	Effects on Overshadowing to surrounding areas of amenity.	Mitigation through design, including articulation of blocks and inclusion of gaps to minimise overshadowing effects.	Negligible to Major Adverse  (131 rear gardens and communal amenity areas experience a Negligible effect, 1 rear garden would experience a Moderate Adverse effect and 6 would experience a Major Adverse effect).
		Wind Microclimate	
Construction	Wind Impacts during Construction	None required.	Negligible
Completed Development	Effects on Thoroughfares	Retained and new trees and planting within the landscaping along with the overall building layouts throughout the Site.	Negligible
	Effects on Entrance – Building M2	Implementing landscaping within the vicinity of Building M2 such as trees (>5m in height) and shrubs (min 1.5m in height).	Negligible
	Effects on Entrances – other	None required.	Negligible
	Effects on Entrances – off site		Negligible
	Effects on Pedestrian Crossing		Negligible
	Effects on Ground Level Amenity – Sitting	Implementing additional landscaping such as specific new trees (>7.5m in height) and shrubs (min 1.5m in height).	Negligible
	Effects on Podium Level Amenity – Sitting	Centre and west area of Podium level amenity on Building plot E to be used for access only. All fixed seating/amenity has been removed from this location in building plot E. Utilise permanent semiporous (50%) screen	Negligible

Stage	Effect	Mitigation	Residual Significance
		between the columns on the north elevation on building plot C. Implementing landscaping elements such as trees (>3m in height), shrubs in planters (min 1.5m in height).	
	Effects on Balconies (Phase 1)	37 no. balconies across Phase 1 have balustrades set to min 1.5m in height. Porosity of these balustrades increased (23%, 50% & 73%).	Negligible
	Effects on Strong Winds	Implementing additional landscaping such as trees (>5m in height) and shrubs (min 1.5m in height) in localised areas. Implementing balustrades set to min 1.5m high (Phase 1).	Not Significant

### **Interactive Effects**

11.3 Regulation 4 (2) states that an ES must include a description of the aspects of the environment likely to be significantly affected by the Development and the interrelationship between these effects. There is no published methodology for determining the significance of interactive or synergistic effects. Combining effects with respect to one environmental discipline with another has to be qualitative and is necessarily based on judgment. Therefore, a matrix system has been used to indicate where such effects would likely occur for the construction and operational phases, highlighting where effects occur to a common receptor. This has been informed by the residual effects of the Development (as identified above in Table 11.1) and are those effects where greater than negligible effects have been identified, where they relate to a common receptor. The findings of this exercise are set out in Table 11.2 below.

**Table 11.2 Interactive Effects** 

Effect	Local Population	Ecology	Townscape and Visual
		Construction Ph	ase
Views of vehicles and machinery being used during the construction period	*		*
Demolition and construction dust	*	*	
Creation of construction employment	*		

Effect	Local Population	Ecology	Townscape and Visual
		Completed Develop	oment
Views of the Development	*		*
New housing and employment opportunities	*		
New Public Realm Creation	*		
Wider human health, local open space and deprivation	*		
New Habitat Creation		*	

<sup>\*</sup>indicates where an effect may occur.

# 11.4 In summary, the Development will result in the following beneficial residual effects:

- Benefits to the local economy, from employment generation during the construction period of the Development;
- Increase in housing provision in the area;
- Improvement in terms of Wider Human Health;
- Benefits from increased public open space; and
- Ecological benefits on habitat (scattered trees and introduced shrub) as well as bats, birds, invertebrates and hedgehog during construction and on foraging and commuting bats during operation.

## 11.5 In summary, the Development will result in the following adverse residual effects:

- Effects on townscape character and visual receptors during construction of the Development; and
- Some daylight and sunlight effects to surrounding residential properties during construction and operation and overshadowing effects to surrounding areas of amenity during operation.