Appendix 11.2 – Summary of Mitigation Measures

Identified receptor	Type and purpose of additional mitigation measure	Means by which mitigation may be secured	Delivered by	Auditable by
Chapter 06 – Air Quality				
Construction Phase				
Dust and air quality sensitive receptors within 250m of the construction site boundary and 50m of a public road used by construction traffic that is within 250m of the construction site access point	All measures set out in Section 6.6 of the Chapter 6: Air Quality, which are based on industry standard guidance and are implemented as standard best practice on well managed construction sites. The measures are primarily aimed at preventing or reducing emissions at source. Measures also include monitoring the effectiveness of mitigation.	CEMP	Construction contractor	Local Planning Authority
Air quality sensitive receptors adjacent to construction traffic routes on the approach to and from the site	Air quality will benefit indirectly from measures that form part of a Construction Traffic Management Plan (CTMP), such as the timing of deliveries to avoid peak hours, for example.	CEMP or Planning Condition	Contractor or Applicant	Local Planning Authority
Operation Phase				
No additional mitigation is proposed for operational phase emissions.				

Identified receptor	Type and purpose of additional mitigation measure	Means by which mitigation may be secured	Delivered by	Auditable by
Chapter 07 – Archaeology				
Construction Phase				
Buried Archaeological Assets within the Northern Part of the Site	Appropriate archaeological investigation to identify, assess and record any archaeological remains, ensuring their preservation by record.	Planning Condition	Archaeological Fieldwork Subcontractor	LPA
Previously Unidentified Archaeological Assets	Appropriate archaeological investigation to identify, assess and record any archaeological remains, ensuring their preservation by record.	Planning Condition	Archaeological Fieldwork Subcontractor	LPA
Operation Phase				
Operational phase scoped out of assessment				
Chapter 08 – Climate Change and Greenhous Gases				
Construction Phase				
The Proposed Development	Enhance – In the CEMP, consideration should be given to raising critical infrastructure to be above PMF (Probably maximum flood) to reduce impacts from pluvial and fluvial flooding.	CEMP to be secured by Planning Condition	Contractor and the Applicant	LPA
The Proposed Development	Enhance – In the CEMP, heat tolerance of material, plant and workforce should be considered when planning construction works to reduce impacts from extreme heat.	CEMP to be secured by Planning Condition	Contractor and the Applicant	LPA

Identified receptor	Type and purpose of additional mitigation measure	Means by which mitigation may be secured	Delivered by	Auditable by
The Proposed Development	Enhance – In the CEMP, debris and dust management procedures should be included to manage increased temperatures and more frequent windy conditions. Consider installing additional attenuation storage tanks at key locations or identified flood risk areas, to increase the Proposed Development's drainage capacity.	CEMP to be secured by Planning Condition	Contractor and the Applicant	LPA
Operation Phase				
The global climate	Reduce – Demonstrate that the Proposed Development does not exceed an annual PUE target of 1.3 (i.e. the annual energy consumed by the data centre divided by the annual energy consumed by any IT equipment does not exceed 1.3 PUE) to show alignment with the Climate Neutral Data Centre Pact.	Energy and Sustainability Statement to be secured by the Planning Condition	Applicant	LPA
The global climate	Enhance – Meet at least 75% of data centre electricity demand with renewable energy or hourly carbon-free energy, increased to 100% by December 31st 2030, to show alignment with the Climate Neutral Data Centre Pact.	Energy and Sustainability Statement to be secured by the Planning Condition	Applicant	LPA
The global climate	Reduce – Demonstrate that the Proposed Development does not exceed an annual WUE target of 0.4 L/kWh (i.e. the annual potable water consumed by the data centre divided by the annual potable water consumed by any IT equipment does not exceed 0.4 L/kWh) to show alignment with the Climate Neutral Data Centre Pact.	Energy and Sustainability Statement to be secured by the Planning Condition	Applicant	LPA

Identified receptor	Type and purpose of additional mitigation measure	Means by which mitigation may be secured	Delivered by	Auditable by
The global climate	Enhance – Set a target for the percentage of server materials which must be repaired or reused at their end-of-life to show alignment with the Climate Neutral Data Centre Pact.	Energy and Sustainability Statement to be secured by the Planning Condition	Applicant	LPA
The global climate	Enhance – Commit to design measures for reusing excess heat from servers to leverage heat recovery and reducing on-site heating demand to show alignment with the Climate Neutral Data Centre Pact.	Energy and Sustainability Statement to be secured by the Planning Condition	Applicant	LPA
The Proposed Development	Enhance – Consider introducing a drainage maintenance and operation plan, that ensures the drainage system is monitored and kept blockage free to reduce during flood events.	Planning Condition	Applicant	LPA
The Proposed Development	Enhance – Consider re-paving key areas with a permeable material to allow water to be absorbed into the ground and not gather on the surface area, to reduce impacts during flood events.	Reserved Matters	Applicant	LPA
The Proposed Development	Enhance – Critical infrastructure should be raised above the PMF (probably maximum flood) level to reduce impacts during flood events.	Reserved Matters	Applicant	LPA
The Proposed Development	Prevent – Wind patterns should be monitored, and an early warning system should be in place at the Proposed Development. This will allow for contingency plans to be put in place in advance of predicted storm and windy conditions.	Planning Condition	Applicant	LPA
The Proposed Development	Prevent – A wind monitoring plan, which establishes procedures and measures that should be instated during periods of strong winds, should be developed.	Planning Condition	Applicant	LPA

Identified receptor	Type and purpose of additional mitigation measure	Means by which mitigation may be secured	Delivered by	Auditable by
The Proposed Development	Prevent – Weather forecasts should be monitored, and an early warning system should be in place at the Proposed Development. This will allow for contingency plans to be put in place in advance of predicted extreme heat events.	Planning Condition	Applicant	LPA
The Proposed Development	Prevent – In advance of expected periods of extreme heat, check all HVAC systems are working correctly and assess if further temporary fans need to be dispersed in indoor areas.	Planning Condition	Applicant	LPA
The Proposed Development	Enhance – HVAC systems should be designed to achieve stated optimal temperature of IT data equipment during spells of extreme outdoor temperature.	Planning Condition	Applicant	LPA
The Proposed Development	Enhance – Design should allow for the retro-fit of new technologies that reduce the reliance on water for use in cooling operation or consider current technologies to reduce water demand.	Planning Condition	Applicant	LPA
Chapter 09 – Landscape and Visual Impact				
Construction Phase				
Trees	Root protection areas (prevent)	Planning condition	Contractor	LPA
Operation Phase				
Access routes	Provision of publicly accessible open space	Planning condition	Developer	LPA
Landscape character and features	Enhancements to green infrastructure (enhance)	Planning condition	Developer	LPA

Identified receptor	Type and purpose of additional mitigation measure	Means by which mitigation may be secured	Delivered by	Auditable by
Strategic screen planting	Detailed planting strategies to reduce visual impact & compensate for lost plants (prevent, offset)	Planning condition	Developer	LPA
Chapter 10 – Noise and Vibration				
Construction Phase				
All receptors	Application of best practicable means committed to in the CEMP	Planning condition	Contractor	Contractor
R04, R05	Acoustic screening at site boundary adjacent to R04 and R05 to reduce noise. To be included in the CEMP	Planning condition	Contractor	Contractor
Operation Phase				
All receptors	Mitigation to achieve noise levels that do not exceed the defined SOAEL during emergency operations through the use of mitigation such as screening, attenuators, silencers and enclosures	Planning condition	Applicant	Applicant