



Supplementary Consultation
3 September to 7 October 2024

Ferris Meadow Lake Options Appraisal Report

Appendix E - Environmental Design Principles Appraisal

Options	Maximum Score	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6a	Option 6b	Option 7	Option 8
		Percentage Score / 100%	Percentage Score / 100%	Percentage Score / 100%	Percentage Score / 100%	Percentage Score / 100%	Percentage Score / 100%	Percentage Score / 100%	Percentage Score / 100%	Percentage Score / 100%
Score Summary										
Environmental Connections	3	2.64	2.38	2.18	2.13	1.66	2.54	2.38	2.47	2.35
Community Connections	3	2.51	2.61	2.46	2.46	2.51	2.52	2.58	2.58	2.49
Economic Connections	3	2.49	2.27	2.20	2.20	2.20	2.49	2.49	2.49	2.49
Grand total		85.0%	80.6%	75.9%	75.4%	70.8%	83.9%	82.7%	83.8%	81.4%
Environmental Connections	<i>Creating sustainable networks for nature</i>									
Ev1 Climate Challenge	<ul style="list-style-type: none"> • Ev1a: Achieve flood alleviation benefits in the most natural and sustainable way • Ev1b: Create climate resilient places, planning today for tomorrow • Ev1c: Promote transition to renewable energy • Ev1d: Enable active travel to reduce carbon emissions and air pollutants • Ev1e: Integrate materials management from an early design stage, re-using excavated material, optimising biodiversity and reducing construction movements. 									
Ev2 Biodiversity	<ul style="list-style-type: none"> • Ev2a: Maximise ecological value of the new channel, the Thames and connecting habitats, with a strong scheme-wide ecological base as a 'non-negotiable' • Ev2b: Network of green space for interaction between people and wildlife • Ev2c: Apply hierarchy principles, avoid/minimise impact to sensitive habitats and fragmentation/severance • Ev2d: Mitigate impacts on locally rare or important habitats, e.g. SSSI • Ev2e: Apply the agreed Approach for Biodiversity to balance the principles of BNG metric with ecological judgement to achieve 20% BNG • Ev2f: Consider use of native species and plants of local provenance • Ev2g: Integrate future resilience measures within existing and new habitats 									
Ev3 Resource Use and Carbon Management	<ul style="list-style-type: none"> • Ev3a: Integrate best practice for carbon and materials management to achieve the scheme's carbon objective • Ev3b: Consider carbon impacts and opportunities across environmental, community and economic aspects • Ev3c: Adopt best practice modelling, lower carbon footprint options, reducing carbon in construction • Ev3d: Implement carbon sequestration systems, including role of wetlands and habitats • Ev3e: Use innovative construction materials reducing environmental and social impact, reducing concrete and whole life costs • Ev3f: Consider restoration of mineral sites in reviewing re-use of excavated materials. 									
Ev4 Landscape and Visual Connections	<ul style="list-style-type: none"> • Ev4a: Create visual connections within the scheme and to destinations within and beyond. • Ev4b: Wayfinding strategy and materials palette, informed by inclusive design and accessibility, to create scheme identity 									
Environmental Connections	Subtotal	2.64	2.38	2.18	2.13	1.66	2.54	2.38	2.47	2.35
Community Connections	<i>Creating sustainable, safe, and inclusive networks for people</i>									
Cm1 Health and Well-being	<ul style="list-style-type: none"> • Cm1a: Adopt best practice for inclusive engagement with stakeholders and inclusive design • Cm1b: Create network of safe, inclusive spaces for diverse needs, physically, psychologically and socially welcoming to all • Cm1c: Integrate multi-functional spaces to support nature connection, physical and mental health and well-being • Cm1d: Design assets which further community value, social wellbeing, informed by participatory approach and needs evidence base. • Cm1e: Designs which respond to need for access to nature and green spaces, support healthy living, nature/social prescribing • Cm1f: Enable improvements to air quality, through pollution capture and evidence-based approach 									
Cm2 Environmental Education	<ul style="list-style-type: none"> • Cm2a: Informed by engagement, create opportunities to learn about the Thames Corridor • Cm2b: Promote access to nature, ensuring best practice in inclusive design • Cm2c: Flexible spaces/platforms for education within green network • Cm2d: Use the design to retain cultural/natural heritage and promote interpretation and learning 									
Cm3 Connecting Communities	<ul style="list-style-type: none"> • Cm3a: Promote active travel, modelling to determine connectivity, needs and accessibility • Cm3b: Connect active travel routes to public transport hubs and networks • Cm3c: Connect employment centres and education centres 									
Cm4 Recreation	<ul style="list-style-type: none"> • Cm4a: Network of formal and informal recreational and sports spaces, inclusive and accessible • Cm4b: Connect to national routes, cycleways and Rights of Way • Cm4c: Network of new and improved Rights of Way • Cm4d: Connect destination sites with social infrastructure • Cm4e: Integrate habitat enhancements supporting access to nature, nature/social prescribing • Cm4f: Provide safe and secure cycle storage, consider electric bike charging • Cm4g: Create solutions with help tackle anti-social behaviour 									
Cm5 Safe, Accessible and Inclusive Spaces	<ul style="list-style-type: none"> • Cm5a: Apply best practice in safe, accessible spaces which foster inclusive, community-orientated behaviour • Cm5b: Sensitive solutions, secure by design, passive surveillance, regular maintenance, artwork • Cm5c: Using lighting, considering light pollution and sensitive receptors 									
Community Connections	Subtotal	2.51	2.61	2.46	2.46	2.51	2.52	2.58	2.58	2.49
Economic Connections	<i>Creating innovative and sustainable networks for the economy</i>									
EC1 Resilience	<ul style="list-style-type: none"> • EC1a: A multi-layered design for flood protection with benefits to communities and nature • EC1b: Design measures to future-proof, respond to climate change, offer resilience • EC1c: Design measures to prepare systems to absorb impacts, recover and adapt from threats. 									
EC2 Natural capital	<ul style="list-style-type: none"> • EC2a: Multi-functionality across energy conservation, climate change and flood alleviation • EC2b: Opportunities to connect economics to environmental systems • EC2c: Align with Nature Recovery, access to nature, respond to areas of need • EC2d: Promote 'green' tourism, connect to destinations, support local economy • EC2e: Enable revenue through the scheme, for example through facilities, hiring, venues 									
EC3 Funding and grants	<ul style="list-style-type: none"> • EC3a: Leverage natural capital by identifying sources and grants for wider benefits • EC3b: Create opportunities for accreditations, which bring skills and collaborations by delivering local and strategic benefits and SDGs • EC3c: Extend local benefits and education to all people through green spaces 									
Economic Connections	Subtotal	2.49	2.27	2.20	2.20	2.20	2.49	2.49	2.49	2.49

Score Key
1 Unlikely to be achievable
2 Potential to achieve
3 Achievable

The Scheme Goals
1. Reduce flood risk to dwellings, businesses and infrastructure.
2. Provide better access to green open spaces, connection with wildlife and sustainable travel network
3. Create a network of high-quality habitat and achieve biodiversity net gain
4. Facilitate sustainable and inclusive economic growth
5. Enable delivery and design that contributes to the achievement of Environment Agency and Surrey County Council goals in relation to carbon use.



Contact

If you would like to contact us outside of your response to this consultation, you can use one of the options below:

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