TRDC Climate and Sustainability Impact Assesment

Score / Colour Code	Impact and Recommendation
Dark green (4)	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.
Light green (3)	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.
Yellow (2)	Some possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.
Red (1)	**Considerable inconsistency with the council's sustainability objectives. Strong recommendation to review these aspects and find mitigations.**
Grey (0)	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.

Guidance for use
Please answer all questions from the drop-down options in the 'impact' column (C), including 'not applicable' as needed.

Please email your completed copy of the form to Joanna.Hewitson@threerivers.gov.uk.

Key to the colour coding of answers is given at the top of the page.

Name of project/policy/procurement and date	Woodlands MUGA and 3G Refurbishment
Brief description (1-2 sentences):	Improvement works on the MUGA at Woodlands Community Hub in Leavesden Country Park: a fenced multi-use games area (MUGA) marked for tennis, netball, and basketball and a 3G football pitch. Both facilities have been heavily used but are now unsafe due to age, poor drainage, and surface erosion. With few alternative options in the area, this project will provide safe, inclusive, and accessible facilities for thousands of local residents, community groups, and sports teams, including people with disabilities. The proposed works include: Resurfacing the MUGA, including accessibility enhancements and wheelchair friendly surfacing, renewing the floodlights with LED lighting, applying new line markings for netball and basketball, Installing drainage around the MUGA, fixed tennis net posts and providing netball and basketball posts, sockets, and backboards.

Homes, buildings, infrastructure, equipment and energy

	Question	Impact (select from list)	Score (-1 to 4)	Justification or mitigation	Impact (select from list)	Revised Score (1-4)
1	**What effect will this project have on overall energy use (electricity or other fuels) e.g. in buildings, appliances or machinery?**	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	The project will replace older floodlights with modern LED units, significantly reducing energy consumption for lighting while maintaining safe illumination levels.	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
2	**What effect will this project have on the direct use of fossil fuels such as gas, petrol, diesel, oil?**	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	The works do not involve any ongoing use of fossil-fuel-powered systems. Contractors may use standard equipment temporarily, but this has no long-term impact.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
3	**Does this project further maximise the use of existing building space? *E.g. co-locating services; bringing under-used space into use; using buildings out-of-hours***	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	The project improves and renews an existing outdoor recreation space, but does not affect building use.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
4	**Will any new building constructed or refurbished be highly energy efficient in use? *(e.g. high levels of insulation, low energy demand per sq. m., no servicing with fossil fuels such as gas heating, EPC "A" or BREAM "excellent").***	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	No buildings are involved; however, the installation of LED floodlights improves overall energy efficiency of site infrastructure.	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
5	**Does this make use of sustainable materials / inputs in your project? *E.g. re-used or recycled construction materials; timber in place of concrete***	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Where feasible, recycled rubber and material infill will be specified, and durable materials will reduce future replacement frequency.	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
6	**Does this use more sustainable processes in the creation of the project? *E.g. modular and off-site construction; use of electrical plant instead of petrol/diesel,***	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Contractors will be encouraged to use electric tools/plant where possible, and waste will be minimised through efficient project phasing.	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
7	**Will this increase the supply of renewable energy? *e.g. installing solar panels; switching to a renewable energy tariff***	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	No renewable energy generation is planned.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
8	**Do any appliances or electrical equipment to be used have high energy efficiency ratings?**	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Aside from LED floodlights, no additional equipment with energy ratings is used.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
	Average Score		**3.00**			**3.00**

Ways to optimise sustainability and work towards net zero carbon:
- Insulate buildings to a high standard.
- Include energy efficiency measures when carrying
- Replace gas boilers with renewable heating, such as heat pumps. Consider District Heat Networks where appropriate.
- Construct new buildings to Passivhaus standard.
- Design and deliver buildings and infrastructure with lower-carbon materials, such as recycled material, wool- or hemp-based insulation, and timber frames.
- Use construction methods that reduce overall energy use, such as modular, factory-built components, or use of electrical plant on-site.
- Install solar panels or other renewable energy generation, and consider including battery storage.
- Switch to a certified renewable energy provider e.g. utilise power purchase agreements (PPA)
- Use energy-efficient appliances.
- Install low-energy LED lighting.
- Install measures to help manage building energy demand, such as smart meters, timers on lighting, or building management systems.

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Grey (0)	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.

Travel

	Question	Impact	Score (0-4)	Justification or mitigation	Impact (select from list)	Revised Score (0-4)
9	Reducing travel: what effect will this project have on overall vehicle use?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Minor construction traffic only; no ongoing travel demand created.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
10	Will this project use petrol or diesel vehicles or EV, hybrid?	**Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.**	0	Contractors may use mixed fleets for short-term works; no operational vehicle use afterward.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
11	Will this support people to use active or low-carbon transport? *E.g. cycling, walking, switching to electric transport*	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	The upgraded facility encourages active recreation locally, reducing the need for residents to travel farther to find suitable sports facilities.	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
12	Will it be easily accessible for all by foot, bike, or public transport, including for disabled people?	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	The MUGA is already located within a community setting and accessible by foot and local public transport.	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
13	Has the project taken steps to reduce traffic? *Using e-cargo bikes; timing activities or deliveries to be outside peak congestion times*	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	No impact on vehicle traffic once construction is completed	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0
	Average Score		**3.50**			**3.50**

Ways to optimise sustainability and work towards net zero carbon:

- Reduce the need to travel e.g. through remote meetings, or rationalising routes and rounds.
- Share vehicles or substitute different modes of travel, rather than procuring new fleet.
- Specify electric, hybrid, or most fuel efficient vehicles for new fleet or for services involving transport.
- Support users and staff to walk, cycle, or use public transport e.g. with cycle parking, training, incentives.
- Use zero-emission deliveries
- Model and mitigate the project's effect on traffic and congestion e.g. retiming the service or deliveries

Goods and Consumption

	Question	Impact	Score (0-4)	Justification or mitigation	Impact (select from list)	Revised Score (0-4)
14	Has this project considered ways to reuse existing goods and materials to the greatest extent possible, before acquiring newly manufactured ones?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Existing sub-base is retained where possible. Old turf will be recycled.	Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
15	Does it reduce reliance on buying newly manufactured goods? *E.g. repair and re-use; sharing and lending goods between services or people; leasing or product-as-a-service rather than ownership*	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Some new materials are required, but specification will favour durable items with long life expectancy.	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
16	Does it use products and resources that are re-used, recycled, or renewable?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Recycled rubber, materials and sustainably sourced posts will be used where available.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
17	Does it enable others to make sustainable choices within their lifestyles, or engage people about this?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Indirect benefits only through encouraging local, low-carbon leisure activity.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
18	Is there a plan to reduce waste sent to landfill in manufacture?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Contractor will minimise waste through accurate ordering and recycling of removed surfacing.	Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
19	Is the material used able to be re-used, re-purposed, or recyled at end of its life?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Modern MUGA surfacing systems are recyclable and designed for future reuse	Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
20	Has it taken steps to ensure any food it offers is more sustainable? *E.g. less and high-quality (high welfare) meat and dairy; minimises food waste; seasonal produce; locally sourced.*	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable to this project.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
	Average Score		**3.00**			**3.00**

Ways to optimise sustainability and work towards net zero carbon:

- Procure goods through sharing, leasing, or product-as-a-service models rather than ownership.
- Use pre-owned and reconditioned goods, and reduce reliance on procuring new goods.
- Use recycled materials, and procure items that can be reconditioned or recycled at end-of-life.
- Use lifecycle costing in business cases to capture the full cost of operation, repair and disposal of an item.
- Ensure meat and dairy is high-quality, high-welfare.
- Design waste, including food waste, out of business models e.g. separating (and composting) food waste; replacing single-use items with reusable items.
- Use contact points with residents, community groups and businesses to engage and enable them to adopt low-waste, low-carbon behaviours.

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Ecology

	Question	Impact	Score (0-4)	Justification or mitigation	Impact (select from list)	Revised Score (0-4)
21	What effect does this project have on total area of non-amenity green/blue space? (Amenity green space = playing fields, play areas, sporting lakes etc. Non-amenity= e.g. woodland, grassland, wetland,	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Works occur entirely within an existing hard-surfaced recreation area.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
22	Does the project create more habitat for nature? E.g. native plants, trees, and flowers	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	Opportunity to incorporate small enhancements such as native planting around the perimeter or wildflower margins.	Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
23	Does it make changes to existing habitats and have a negative impact on nature? *E.g. use of pesticides, reduced extent and variety of plants, planting non-native species*	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	No natural habitats affected.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
24	Does it help people understand the value of biodiversity, and encourage residents to support it in their private and community spaces?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Indirect benefits only; signage could be added in future if required.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
	Average Score		**3**			**3**

Ways to optimise sustainability and work towards net zero carbon:
(Seek advice from Landscapes Team if required)

- Avoid converting green space to hard surfacing.
- Use underutilised space for planting, such as green roofs and walls.
- Plant native plants and perennials, rather than non-native ornamental species, to encourage biodiversity.
- Reduce trimming of grass and hedges, and avoid use of synthetic pesticides.
- Provide space for animals e.g. long grass areas, bird boxes, bat boxes, 'insect hotels', ponds, hedgehog hides and passages, log piles
- Consider the ecological impacts from manufacture and

Adaptation

	Question	Impact	Score (0-4)	Justification or mitigation	Impact (select from list)	Revised Score (0-4)
25	Does any planned project, construction or building use include measures to conserve water?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Not applicable but drainage improvements will reduce pooling and run-off.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
26	Does anythe project , consider how to sustainably protect people from extreme weather?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	New drainage reduces surface flooding risk, making the area safer during heavy rain.	Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
27	Has any planned building work or infrastructure considered how to mitigate flood risk? *E.g. Sustainable Drainage Systems (SuDS); de-paving areas; green roofs*	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4	Improved drainage significantly increases resilience, reducing flood-related surface water issues.	Strong positive impacts for sustainability. Recommendation to proceed as is with this aspect.	4
28	Does any planned infrastructure or building work increase the overall footprint of hard surfacing? (as opposed to green or permeable surfacing)	Some possible negative impacts for sustainability. Recommendation to review these aspects and find mitigations where possible.	2	Existing hard surface is retained; however drainage improvements offset any increase in runoff.	Some positive impact for sustainability. Recommendation to further enhance this aspect where	3
29	Has the project considered its own resilience to future extreme heat, flood risk, or water shortage?	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this area, but otherwise proceed.	0	Drainage upgrades help futureproof the facility against heavier rainfall events.	Neutral or not applicable. Recommendation to consider how benefits could be achieved in this	0
	Average Score		**3.0**			**3.33**

Ways to optimise sustainability and work towards net zero carbon:

- Install water-saving devices in taps, showers and toilets
- Re-use grey water in new developments
-Capture and re-use rainwater where possible e.g. water butts for use in car washing, watering garden, toilets
- Ensure all new building or refurbishment (especially of homes) models and mitigates future overheating risk, with adequate ventilation and shading
- Avoid increasing areas of hard surfacing.
- Convert hard surfacing to green and permeable surfacing where possible, and install Sustainable Drainage systems (SUDS).
- Plant drought-tolerant plants and mulch landscapes to avoid water loss through evaporation.

Engagement and Influence

	Question	Impact	Score (0-4)	Justification or mitigation	Impact (select from list)	Revised Score (0-4)
30	Does this project raise awareness and understanding of the climate and ecological emergency, and the steps that people can take?	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3	activity locally, reducing travel and highlighting sustainable community investment. Optional signage could promote responsible environmental behaviour.	Some positive impact for sustainability. Recommendation to further enhance this aspect where possible and proceed.	3
	Average Score		**3**			**3**

Ways to optimise sustainability and work towards net zero carbon:

- 'Make every contact count', by using contact points with residents, businesses and community groups to promote understanding of the climate emergency.

Total Overall Average Score	**3.08**	**3.1**

Climate and Sustainability Impact Assessment Summary	
Homes, buildings, infrastructure, equipment and energy	3.00
Travel	3.50
Goods and Consumption	3.00
Ecology	3.00
Adaptation	3.33
Engagement and Influence	3
Total Overall Average Score	**3.1**

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