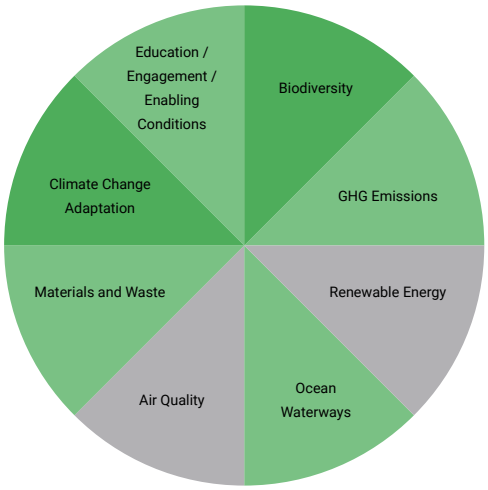
Trefusis test FINAL



Assessment ID: TRE166

Assessment Author: P Mugford

Assessment Initial Summary:

Trefusis Park SuDs Scheme to provide surface water storage and improve the facilities in the park.

Assessment Final Summary:

The majority of the outputs are positive with long term benefits. Where there are no impact or neutral impact there is mitigation. For air quality for instance the mitigation is as follows:Construction methods will seek to dampen down and control dust created. Following construction the additional tree planting could help to improve air quality.There are no renewable energy elements to this scheme.

Biodiversity Score: 5

Biodiversity Score Justification: Existing park is amenity grassland. Biodiversity will be increased through ecology pond, seasonal wetland and more diverse planting and additional trees.

Biodiversity Score Mitigate: No

GHG Emissions Score: 5

GHG Emissions Score Justification: Increase in the number of trees within the park leading to a reduction in carbon. Separation of surface water and reduction in flooding in habited areas will also reduce greenhouse gas emissions as there will be less energy used in processing waste water and cleaning up and rebuilding after flooding events have damaged property.

GHG Emissions Score Mitigate: No

Renewable Energy Score: 3

Renewable Energy Score Justification: There are no renewable energy elements to the project.

Renewable Energy Score Mitigate: No

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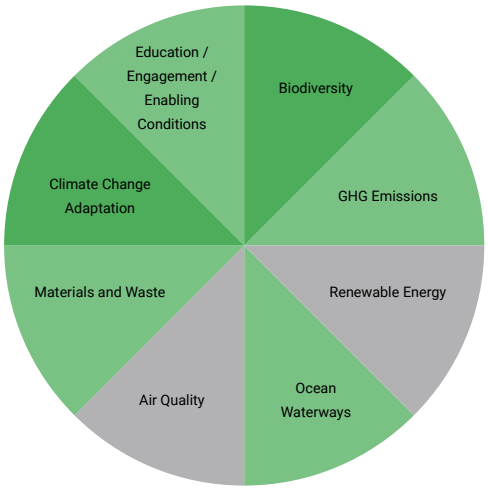

Ocean and Waterways Score: 5

Ocean and Waterways Score Justification: The project will create a permanent ecology pond as well as seasonal wet land basins with leaky dams, reed beds and aquatic planting to help filtrate the surface water to improve the water quality. The old drainage channel will also be filled in to create additional habitat

Ocean and Waterways Score Mitigate: No

Air Quality Score: 2

Air Quality Score Justification: During construction there could be a short term negative impact on air quality.

Air Quality Score Mitigate: Yes

Air Quality Revised Score: 3

Air Quality Revised Score Justification: Construction methods will seek to dampen down and control dust created. Following construction the additional tree planting could help to improve air quality.

Materials and Waste Score: 2

Materials and Waste Score Justification: During construction the project will create waste and require transportation of materials. This will be managed by a Site Waste Management plan. The mitigation is covered below.

Materials and Waste Score Mitigate: Yes

Materials and Waste Revised Score: 5

Materials and Waste Revised Score Justification: Following on from the scheme, SWW will separate out surface water upstream which will reduce the amount of treated combined sewage. Some local waste materials (china clay waste) will be used in construction. Local materials will be used for construction reducing transportation wastage.

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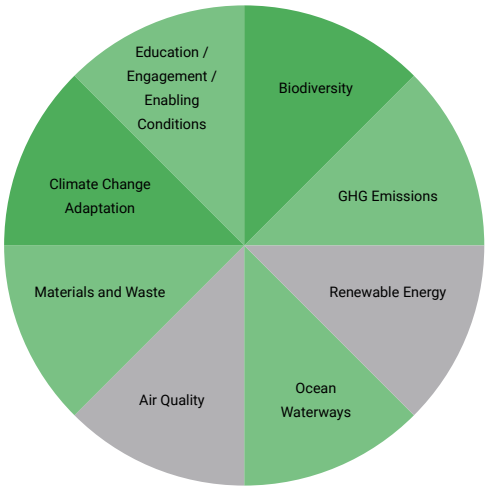

Climate Change Adaptation Score: 5

Climate Change Adaptation Score Justification: As surface water will be stored the effects of climate change such as flooding will be reduced in the future. This aims to increase resilience to flooding for the local area within Plymouth. For this scheme the number of properties with decreased flooding potential is 21. And 147 following the South West Water surface water separation.

Climate Change Adaptation Score Mitigate: No

Education / Engagement / Enabling Conditions Score: 5

Education / Engagement / Enabling Conditions Score Justification: Provision of wet land storage will mitigate issue of climate change for local people, through the reduction of the impacts of flooding. Improved facilities within the park will help people use local facilities resulting in less travel.There will be a public information exercise in June 2024. We will be considering opportunities for schools to visit during construction. The project is also supported by the Building resilience in Communities Team who are working with Lipson residents to help them be better prepared, for flooding, act promptly during a flood and recover quickly after a flood event.

Education / Engagement / Enabling Conditions Score Mitigate: No

Wheel Key

- Long lasting or severe negative impact
- Short term or limited negative impact
- No impact or neutral impact
- Short term or limited positive impact
- Long lasting or extensive positive impact