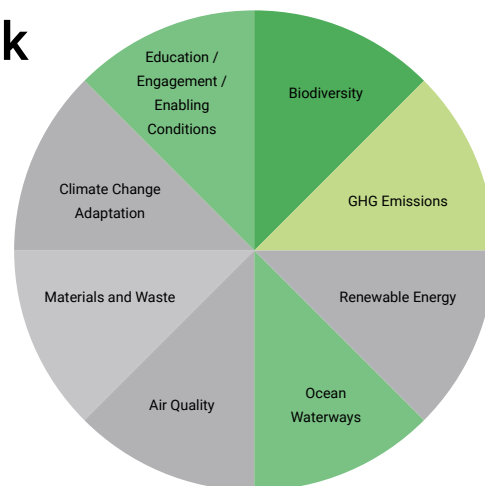


Plymouth Sound National Marine Park Horizons project FINAL



Assessment ID: PLY864

Assessment Author: Nick Helm

Assessment Initial Summary:

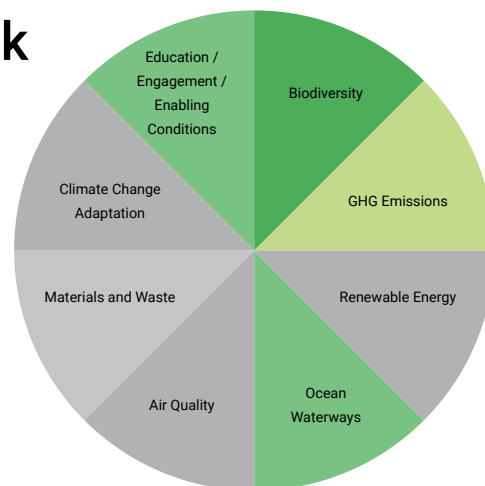
Plymouth Sound National Marine Park Horizons project will kickstart the first National Marine Park in the UK. The vision for this National Marine Park is as follows:

Our National Marine Park will value the environment, heritage and economy of Plymouth Sound and its estuaries. It is where people and planet will come together to realise a new, sustainable relationship with the sea

Strategic aims:

1. Deliver the UK's first National Marine Park and inspire the development of a national network of new National Marine Park's;
2. Protect, restore and enhance a world class natural environment and heritage landscape, by encouraging the entire city to enjoy, value and care about the PSNMP;
3. Enable a new a generation of Marine Citizens through a pioneering behavioural change programme that removes barriers to engagement and provides opportunities for all citizens and Lottery players to benefit from and be part of the PSNMP's future;
4. Be a national exemplar and thought leader in enabling a positive response to carbon reduction, climate resilience and nature positive delivery for government, Plymouth and the National Lottery Heritage Fund;
5. Provide new supported employment opportunities and career pathways in sustainable future ocean jobs, particularly enabling those seeking employment, education and training (SEETS);
6. Support delivery of key City priorities including making Plymouth a great place to grow up and grow old, championing health and wellbeing through all activities;
7. Deliver in a manner which continually seeks new ways to enable inclusion, overcome barriers to engagement and ensuring those with additional needs are supported to participate;
8. Inspire everyone to be actively involved in the PSNMP through a new generation of engaged volunteers, communities, digital and heritage champions;
9. Get everyone in the city, in, on, under or next to the water through the development of an interconnected network of 4 PSNMP Gateways, 2 Community Access Points and an activity programme that reaches from the waterfront into the heart of the City;

Plymouth Sound National Marine Park Horizons project FINAL



10. Deliver an internationally significant innovation pilot for digital heritage engagement that will bring the treasures beneath the waves to life and connect with people across the City and beyond.

This will be completed through:

- An inclusive Activity Plan, which will provide diverse and inspiring opportunities to engage with the Park, discover and learn more about PSNMP and support activities to help enhance and care for the Park;
- Sensitive Capital enhancements to key Gateways along the waterfront opening up new places and spaces for communities to enjoy and engage with PSNMP;
- Pioneering Nature restoration initiatives;
- An innovative Digital Park to ensure the heritage beneath the waves is visible, accessible and inspirational;
- An Interpretation Plan which will highlight the past, present and future, co-designed with communities, reaching into the heart of our city.

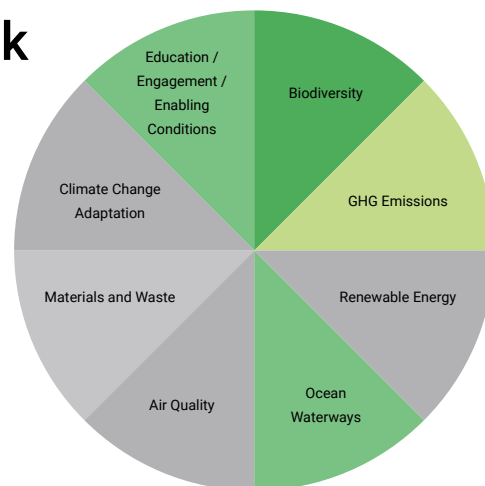
Assessment Final Summary:

Plymouth Sound National Marine Park Horizons project is dedicated to delivering positive conditions for people, nature and built heritage. The delivery of this project is likely to have an extensive, long-term impact on education, biodiversity, and our waterways, with a limited positive impact on GHG emissions. All other features analysed will likely have negligible / no NET impact.

Biodiversity Score: 5

Biodiversity Score Justification: Nature conservation and enhancement is a key aim of this project. Our Nature Boost projects aim to improve biodiversity through protected habitat restoration, keystone species reintroduction, small scale community funding opportunities, and development of a seagrass restoration funding model, ensuring consistent investment in nature and support of biodiversity. Under our Habitat Regulations Assessment (HRA), it is recognised

Plymouth Sound National Marine Park Horizons project FINAL



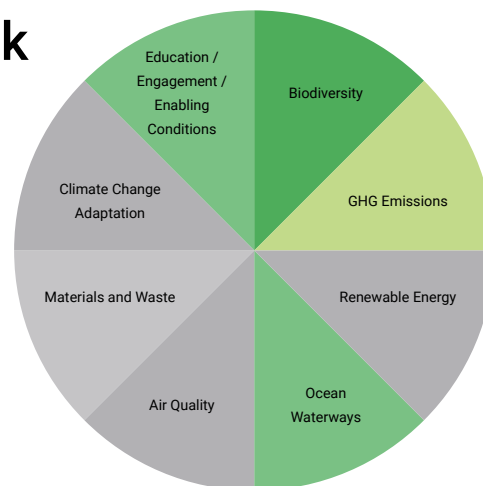
that with increased engagement there is the potential for increased pressure on terrestrial and marine environments from recreational activities. Alongside this HRA, a Strategic Mitigation Plan has been undertaken as part of the horizons project to analyse potential impact on the Marine Protected Area and ensure appropriate safeguards and mitigation is in place. This mitigation programme, teamed with our nature, activity, capital, interpretation, and digital programmes will improve nature connectedness for 265,000 people in Plymouth, and internationally through our digital programme. All aspects of the horizons project intrinsically involve leading the whole city towards nature positive behaviour changes through the marine citizenship pathway. Encouraging a long-lasting, meaningful shift in behaviour towards nature conservation and the development of infrastructure to support future blue/green jobs.

Biodiversity Score Mitigate: No

GHG Emissions Score: 4

GHG Emissions Score Justification: PSNMP is dedicated to being a NET zero project, monitoring GHG emissions throughout the capital build and continuously working closely with Low Carbon City Officers. In the short term, all capital projects involve increased GHG emissions due to construction related practices but, in all cases, reducing emissions will be prioritised over offsetting strategies. The project has also prioritised repurposing existing buildings over constructing new buildings to limit carbon associated with construction. As the project moves forward into delivery, the carbon output of the project will be monitored, and any excess carbon emissions will be offset locally. The gateway hub development projects will follow best practice guidance (e.g. DEFRA – managing soil on construction sites) to ensure the soil of the work sites is properly protected and all planting is responsibly sourced. In the designs of capital improvements, increased GHG emissions from increased power usage will be mitigated by designs featured in the capital programme. As part of the Nature Boost projects, a financial strategy is being developed for restoring Seagrass beds in Plymouth. This funding into developing a strategy to enable locally based, easily accessible C offsetting, contributing to a long lasting, significant sequestration method. There will also likely be an increase in GHG emissions from personal travel due to increased water access. However, through all the PSNMP Horizons project workstreams, we will be inspiring water users to change behaviours to access the water using sustainable travel options. PSNMP activities and engagement is focussed on Plymouth residents, also cutting down on emissions to access activities. The mitigation of these negative impacts, combined with the responsible modernisation of existing buildings, the

Plymouth Sound National Marine Park Horizons project FINAL



development of a C sequestration funding strategy and the kickstarting of meaningful behaviour change will lead to at least a limited positive impact on GHG emissions in the city.

GHG Emissions Score Mitigate: No

Renewable Energy Score: 3

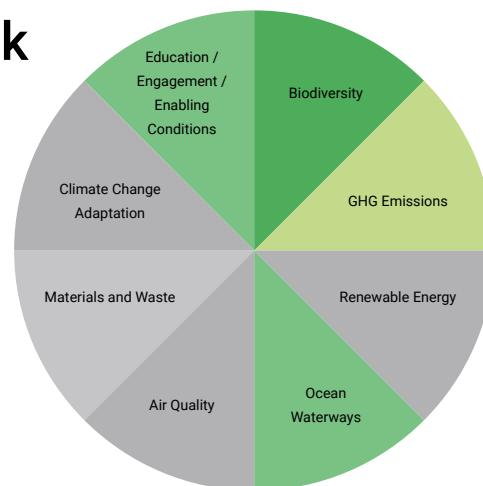
Renewable Energy Score Justification: This project will not increase or decrease the provision of renewable energy in Plymouth but will reduce waste energy through the modernisation of heritage buildings and the encouragement of climate-conscious behaviour change. There are several capital improvements that will reduce waste energy that will be implemented due to the Horizons funding, such as fitting an air source heat pump upgrading lighting to LED and more energy efficient hand dryers to certain gateways. Continued monitoring of energy consumption data throughout the project will help to identify further improvements and operational facilities.

Renewable Energy Score Mitigate: No

Ocean and Waterways Score: 5

Ocean and Waterways Score Justification: Plymouth Sound National Marine Park's ethos is based around the improvement of the Natural heritage of Plymouth through engagement, practical conservation, supporting conservation employment and much more. A Strategic Mitigation Plan is being developed to ensure any potential impacts to waterways from increased recreational pressure are fully managed and the marine citizenship programme will help develop stewards for the Park. The mitigation includes behaviour change through all workstreams of the PSNMP Horizons project and Nature Boost programmes, which will be actively improving the quality and size of protected marine habitats and species, such as biogenic reefs, mudflats, seagrass, allis shad and more. The waterways are being protected from increased risk to water quality during construction and landscaping by comprehensive Construction Environment Management Plan (CEMP) specific to each capital project. The gateway hub development sites have been assessed and concluded that the capital programme presents no negative impact to water quality with the agreed mitigation. There will be a small additional burden to the sewage system from the capital works, but this has been assessed and works have been approved with appropriate mitigations through planning permission. The restoration of biogenic reefs in

Plymouth Sound National Marine Park Horizons project FINAL



Plymouth Sound under the Nature Boost programme will also significantly benefit the water ways by mitigation excess organic pollution from all sources. The mitigations of any potentially negative impacts to waterways teamed with improving the connection to the water of 265,000 Plymouth residents, innovating an accessible digital marine park, supporting the development of blue jobs and much more, PSNMP will create a significant and sustained positive impact on our waterways for generations to come.

Ocean and Waterways Score Mitigate: No

Air Quality Score: 3

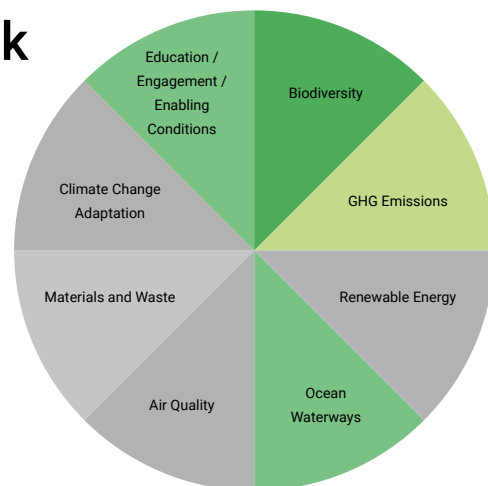
Air Quality Score Justification: This project will not cut down or extend travel time due to no disruption or change to traffic flow throughout the city. In all possible cases, PSNMP will be encouraging participants to attend events and activities using a sustainable method of travel. The project will also include activities that will be taken to communities to further limit the need to travel to attend activities. As to be expected, PSNMP Horizons project will lead to a short-term increase in particulates whilst the capital works is being carried out. However, all capital works are based on existing structures and no large-scale particulate releases from activities such as demolition will take place. This means there will be a limited increase in air pollutants from plant or activity. There will be some direct minor green infrastructure planting support to specific areas of the capital improvements programme but the project will support external green infrastructure through local C offsetting schemes. The development of a digital marine park means that the benefits of PSNMP and the marine citizenship pathway can be accessed from anywhere, without needing to physically access the water. This greatly increases the possible reach and effectiveness of the interventions proposed, without increasing local particulates. Weighing this up, this project is unlikely to impact the air quality of Plymouth.

Air Quality Score Mitigate: No

Materials and Waste Score: 3

Materials and Waste Score Justification: None of the capital aspects of the project involve the creation of any new buildings, instead modernising and increasing the usage of current buildings. This significantly cuts down on potential onward waste. During the design process, best practice

Plymouth Sound National Marine Park Horizons project FINAL



for environmental sustainability has been followed, and waste management plans will be created where appropriate. Finishes and materials have been explored to ensure a sustainable ethos is adhered to, to reduce carbon emissions in both embodied carbon and operational energy. The marine environment has driven material choices to ensure longevity and robustness. In addition, the construction materials with a long-life and low carbon disposal at end of life will be considered. Additionally, there will be priority given to locally sourced products and services that reduce the negative impacts of transportation. All timber used throughout the project will be derived from sustainable sources certified by the Forest Stewardship Council (FSC) and where possible will be sourced locally to reduce transport to site. Through our behaviour change programmes, PSNMP advocates for the sustainable use of resources and the need for removal of plastic from the marine environment. The PSNMP will continue to deliver the aims and objectives of the Plan for Plastics to further Plymouth's ambition to be a plastic free city. The PSNMP and partners will use the Plymouth Plastic Free Protocol to help guide the reduction of plastic, following the waste hierarchy.

Materials and Waste Score Mitigate: No

Climate Change Adaptation Score: 3

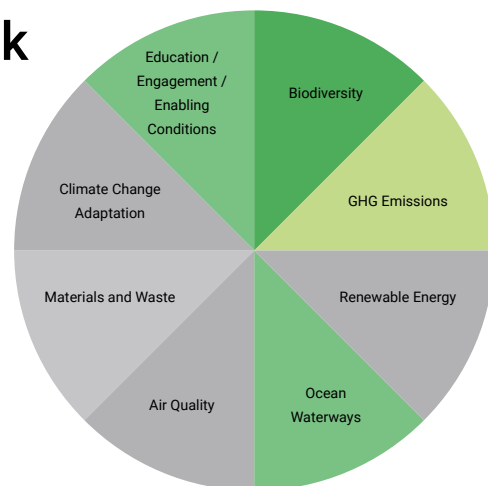
Climate Change Adaptation Score Justification: Flood risk assessments and drainage strategies have been produced during the planning process for the gateway hub capital developments. The planned capital developments are wholly or partly in Flood Zone 3 within which water compatible development is permitted. Each building will be constructed with flood resistant and resilient materials to mitigate any damage caused by water entry. Due to all construction works being to existing buildings, this means the PSNMP Horizons funding is only improving the ability of existing buildings to cope with flooding. Through our behaviour change programme and Nature solutions, PSNMP Horizons funding will strongly advocate for climate conscious behaviours, alleviating the intensity of climate change.

Climate Change Adaptation Score Mitigate: No

Education / Engagement / Enabling Conditions Score: 5

Education / Engagement / Enabling Conditions Score Justification: PSNMP Horizons project is

Plymouth Sound National Marine Park Horizons project FINAL



committed to engaging with 265,000 Plymouth residents, developing a population of 'marine citizens' and encouraging nature-conscious behaviour change. PSNMP will also engage with businesses, schools, community groups, and more to raise awareness for actions we can all take to tackle the climate emergency and biodiversity crisis. PSNMP staff will continue to work closely with other PCC projects such as BRIC, Plymouth & South Devon CF and SUDS to help residents and businesses prepare for and adapt to climate change. This project will increase the capacity of residents to adopt climate friendly behaviours through all elements of the project. For example, increased blue / green skills through our volunteer and supported internship programme, increased advocacy of sustainable travel and increasing awareness around climate friendly behaviours.

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