

Public Document Pack

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Date: Wednesday, 22 November 2023

Dear Sir or Madam

The Transport, Climate and Communities Policy and Scrutiny Panel – Thursday, 30 November 2023, 2.00 pm – New Council Chamber - Town Hall

A meeting of the Transport, Climate and Communities Policy and Scrutiny Panel will take place as indicated above.

The agenda is set out overleaf.

Yours faithfully

Assistant Director Legal & Governance and Monitoring Officer

To: Members of the Transport, Climate and Communities Policy and Scrutiny Panel

Councillors:

Steve Bridger (Chair), Mike Bird, Peter Burden, Ciaran Cronnelly, Nicola Holland, Sue Mason, Stuart McQuillan (Vice Chair), Tom Nicholson, Robert Payne, Terry Porter, Michael Pryke and Luke Smith.

This document and associated papers can be made available in a different format on request.

Agenda

1. **Public Discussion (Standing Order SSO9)**

To receive and hear any person who wishes to address the Panel on matters which affect the District and fall within the remit of the Panel. The Chairman will select the order of the matters to be heard. Members of the Panel may ask questions of the member of the public and a dialogue between the parties can be undertaken.

Requests to speak must be submitted in writing to the Head of Legal and Democratic Services, or the officer mentioned at the top of this agenda letter, by noon on the day before.

2. **Apologies for Absence and Notifications for Substitutes**

3. **Declaration of Disclosable Pecuniary Interest (Standing Order 37)**

A Member must declare any disclosable pecuniary interest where it relates to any matter being considered at the meeting. A declaration of a disclosable pecuniary interest should indicate the interest and the agenda item to which it relates. A Member is not permitted to participate in this agenda item by law and should immediately leave the meeting before the start of any debate.

If the Member leaves the Chamber in respect of a declaration, he or she should ensure that the Chairman is aware of this before he or she leaves to enable their exit from the meeting to be recorded in the minutes in accordance with Standing Order 37.

4. **Minutes** (Pages 5 - 8)

Minutes of the Transport, Climate and Communities Policy and Scrutiny Panel (TCC) held on 20 July 2023 – to approve as a correct record

5. **Matters referred by Council, the Executive, other Committees and Panels (if any)**

6. **Strategic Asset Management Plan updates, including Development Programme** (Pages 9 - 18)

7. **Rights Of Way Improvement Plan** (Pages 19 - 32)

8. **Green Infrastructure Strategy update** (Pages 33 - 240)

9. **A38 MRN progress update** (Pages 241 - 250)

10. **The Panel's Work Plan** (Pages 251 - 256)

Exempt Items

Should the Transport, Climate and Communities Policy and Scrutiny Panel wish to consider a matter as an Exempt Item, the following resolution should be passed -

“(1) That the press, public, and officers not required by the Members, the Chief Executive or the Director, to remain during the exempt session, be excluded from the meeting during consideration of the following item of business on the ground that its consideration will involve the disclosure of exempt information as defined in Section 100I of the Local Government Act 1972.”

Also, if appropriate, the following resolution should be passed –

“(2) That members of the Council who are not members of the Transport, Climate and Communities Policy and Scrutiny Panel be invited to remain.”

Mobile phones and other mobile devices

All persons attending the meeting are requested to ensure that these devices are switched to silent mode. The chairman may approve an exception to this request in special circumstances.

Filming and recording of meetings

The proceedings of this meeting may be recorded for broadcasting purposes.

Anyone wishing to film part or all of the proceedings may do so unless the press and public are excluded for that part of the meeting or there is good reason not to do so, as directed by the Chairman. Any filming must be done as unobtrusively as possible from a single fixed position without the use of any additional lighting, focusing only on those actively participating in the meeting and having regard to the wishes of any members of the public present who may not wish to be filmed. As a matter of courtesy, anyone wishing to film proceedings is asked to advise the Chairman or the Assistant Director Legal & Governance and Monitoring Officer’s representative before the start of the meeting so that all those present may be made aware that it is happening.

Members of the public may also use Facebook and Twitter or other forms of social media to report on proceedings at this meeting.

Emergency Evacuation Procedure

On hearing the alarm – (a continuous two tone siren)

Leave the room by the nearest exit door. Ensure that windows are closed.

Last person out to close the door.

Do not stop to collect personal belongings.

Do not use the lifts.

Follow the green and white exit signs and make your way to the assembly point.

Do not re-enter the building until authorised to do so by the Fire Authority.

Go to Assembly Point C – Outside the offices formerly occupied by Stephen & Co

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Minutes

of the Meeting of

The Transport, Climate and Communities Policy and Scrutiny Panel

Thursday, 20 July 2023

New Council Chamber - Town Hall

Meeting Commenced: 10.00 am

Meeting Concluded: 12.25 pm

Councillors:

Steve Bridger (Chair)
Peter Burden
Ciaran Cronnelly
Nicola Holland
Sue Mason
Stuart McQuillan
Luke Smith

Apologies: Councillors: Mike Bird, Tom Nicholson, Robert Payne, Terry Porter, Michael Pryke

Officers in attendance: Victoria Barvenova, Cara Clitheroe, Gemma Dando, Jenny Ford, Louis Mertens, Carl Nicholson, Melanie Watts, Harriet Isherwood, Philippa Penney, Leo Taylor

TCC Election of the Vice-Chairperson for the 2023/24 Municipal Year

1

Resolved: Councillor Stuart McQuillan be elected Vice-Chairperson for the 2023/24 Municipal Year.

TCC Declaration of Disclosable Pecuniary Interest (Standing Order 37)

2

None.

TCC Minutes

3

Resolved: that the minutes of the Partnerships, Corporate Organisation and Overview Management Policy and Scrutiny Panel (PCOM) held on 2 March 2023 be approved as a correct record.

TCC Role, Remit and Work Plan of the Transport, Climate and Communities Policy and Scrutiny Panel

4

The Scrutiny Officer presented the report which provided an overview of the

Panel's scrutiny and work planning process. Members noted the suggested work plan priorities proposed by the equivalent scrutiny Panel in the last administration (as set out in the approved minutes) and the Chair then set out his initial thoughts on areas of focus going forward, inviting feedback and suggestions from Members. Feedback included the proposed establishment of a number of Panel steering groups focusing on topics including the following council services and policies: waste services; the Bus Service Improvement Plan; the Active Travel Strategy; Customer Services Strategy implementation; capital schemes and major projects; communications and community engagement; path to Net Zero; community safety; and Council finance.

Other comments included the overriding need to carefully plan and prioritise panel activity, aligning the work plan with departmental work programmes and the Panel's capacity to deliver.

The Chair concluded discussions by confirming that the work plan would now be worked up taking this discussion into account and agreed to circulate a draft for discussion ahead of the next Panel meeting on 30 November 2023.

TCC 5 WESTLink Services and 3-Month Review

In introducing the item, the Chair emphasised his support for this innovative service, noting that this was the first of its type in the wider city region. He added that Members' comments today would feed into the current review of the service. He also noted that, whilst there had been positive feedback from the public, the service had needed to be mobilised quickly and there were some ongoing challenges.

The Principal Transport Planning Officer and the Services Manager for Passenger Transport presented the report which outlined the first three-month review for the WESTLink service together with a summary of the public feedback following its introduction. They emphasised, whilst public feedback had largely been positive, negative feedback that had been received mainly concerned service reliability issues, a symptom of driver shortages facing bus services nationally. Other concerns included some issues around bus stop location and expected journey times. Officers were investigating these with the contractor and were considering opportunities around more effective demand and capacity management such as using fares and/or the bus application/phone service to more intelligently shape and integrate the types of journeys sought by passengers.

Members sought and received clarification on the following:

- the importance of feeding back to passengers in order to promote better public understanding and confidence in the service going forward;
- how to respond to customer demand for both scheduled and demand responsive elements of the bus service? - Officers explained this could be better incorporated into the user application but there had not been time to do so by launch. More data on customer preferences was needed to more effectively inform further development of the service and a passenger survey was being developed with the Combined Authority;
- officers provided additional passenger data on total journeys on the service so far,

- numbers during peak periods, and which areas used the service most (the southern zone was significantly busier than other zones in the district);
- where were driver shortages having most impact? – the problems were mainly at the Bristol depot though the impacts were felt across the area; and
- issues around arrival times and integration with other bus and rail services – officers confirmed that work was underway with current providers: to improve arrival estimates (ie taking into account traffic conditions); to explore fare opportunities around the “day rider” ticket for instance; and to improve information around interchange opportunities.

Concluded: that Members’ feedback be provided to officers in the form of the minutes.

TCC 6 Finance report – Medium term financial plan (MTFP)

The Head of finance presented the report summarising the Council’s proposed process and timeline to ensure delivery of the medium term financial plan for the period 2024 to 2028 and draft revenue budget for the 2024/25 financial year, providing an opportunity for the Panel to discuss and consider how the communication and engagement aspects of the Plan should be delivered and also how the MTFP process should be aligned with the policy and scrutiny function.

In discussion Members commented as follows:

- the need for scrutiny to have a longer-term horizon – beyond the current financial year; balancing routine scrutiny of key decisions with establishing a space for scrutiny involvement in policy development around issues of real interest to residents;
- the focus of the Panel needed to be around the budget and how the Council engaged and communicated budget options and choices;
- the need to engage with scrutiny and residents as early as possible in the process, effectively integrating this early engagement into the process going forward.

Concluded: that the report be received and that Members’ feedback be provided to officers in the form of the minutes.

TCC 7 Climate Emergency Action Plan update and progress report

The Climate Emergency Project Manager presented the report setting out a progress update on the actions of the Climate Emergency Strategy and Action Plan. Members noted that the North Somerset area emissions data would be released at the end of July 2023 and would be reported to full Council in September 2023.

In discussing the report, Members sought and received clarification on the following:

- adaption resilience around the highway network (gullies and drains) appeared to be worsening - officers agreed noting that whilst the larger amount of data now available meant that it was possible to better target intervention, ultimately funding continued to be a significant constraint. They emphasised however that, from a climate perspective,

communications were key: the Council had an important role as an enabler (eg encouraging use of water butts) and could make a difference.

- Large numbers of potholes by comparison with other countries which seemed to better maintain their roads – officers referred again to funding constraints across the UK, necessitating a patch-and-mend approach. There was recognition that more needed to be done on longer-term asset management but that this needed to be considered in the round with active travel and climate adaption policies. Officers suggested a Panel inquiry day as a possible approach to exploring this further. Members also noted that an all-Member briefing was being planned on road maintenance which would cover these issues.
- Is the Council on track to meet the 2030 net zero deadline? – officers emphasised that much was outside the Council’s direct control and more investment would be needed locally for the target to be met. Recent studies showed that legislative levers would be required and local authorities were not yet empowered to deliver locally.
- Business travel in the area was the main challenge – officer reported that 40% of emissions came from transport with latest data showing an increasing trend. The Council needed to lobby businesses with clear messaging both informing and upskilling the sector.

In bringing discussions to a close, the Chair agreed that more focussed consideration of these issues by the Panel would be required going forward.

Concluded:

1. that the Panel re-endorse its support for the Council's commitment to achieving net zero carbon by 2030 through the actions described; and
2. that the Action Plan information on carbon emissions of council own estate be noted.

Chairman

North Somerset Council

Report to the Transport, Climate and Communities Policy and Scrutiny Panel

Date of meeting: Thursday 30th November 2023

Subject of report: Strategic Asset Management Plan updates, including Development Programme

Town or Parish: All

Officer/Member presenting: Alex Fear, Head of Property & Projects

Key Decision: No

Reason: report is for information

Recommendations

This report is primarily for information, however members of the panel are invited to:

- Note the commitment to the SAMP process through to 2034 through the three-step process described.
- Note the information on decarbonising the Council's own estate.
- Note the progress on the SAMP and Development Programme which are also summarised in this report.
- Provide comment on any of the above in advance of future Executive/Council reports.

1. Summary of report

- 1.1 This report sets out progress update on the actions of the Projects and Property team with regards to the delivery of the ten-year SAMP programme, with a commitment to rationalising, developing, and maintaining our asset portfolio through the actions described.
- 1.2 The report includes an update on the council's Development Programme for the delivery of homes and jobs on land that it owns.

2. Policy

- 2.1 The three corporate programmes providing the basis for this programme of work are:
 - Strategic Asset Management & Property Plan (SAMPP): a strategic framework setting core principles for the future use and management of the council's assets in order to enable the successful delivery of council services.
 - Accommodation Strategy (AS): a specific piece of work focused on the council's ways of working and use of office accommodation.

- Development Strategy (DS): the preparation of a programme of investment, divestment or disposal for our potential development sites, including legal and financial advice on delivery mechanisms.

2.2 These interlinked strategies were adopted by Full Council in February 2021.

2.3 The projects described in this report are identified in and have implications for the:

- Corporate Plan.
- North Somerset Economic Plan.
- Climate Emergency Action Plan.
- Medium Term Financial Plan and Capital Strategy

3. Details

North Somerset Council Strategic Asset Management Plan (SAMP)

3.1 The overall aim of the Strategic Asset Management Plan (SAMP) is set out at the beginning of the document which was adopted in Feb 2021:

“North Somerset Council holds property to sustain and support its corporate objectives as set out in the Corporate Plan, and other strategies. The aim of the Strategic Asset Management Plan (SAMP) is to set out the Council’s vision, aspirations and objectives for its land and property assets portfolio, and to outline a 10-year plan for how it intends to achieve these outcomes.”

3.2 A main transformation theme of North Somerset Council is linked to the council’s asset base – i.e. what physical assets are being used in the delivery of services, how suitable are they to meet the service/community need, what is their condition, are they in the right place, are there any alternative options that could be considered.

3.3 Linked to this, NSC’s Capital strategy reflects that:

“Reviewing and updating the Strategic Asset Management Strategy which is focused on understanding our asset base to prioritise investment on those assets which are required to core support service delivery (including through income generation) within our communities and mitigate risk by divesting of those assets which do not meet these outcomes.”

Property assessments and maintenance

3.4 The Strategic Asset Management Plan (SAMP) was adopted in February 2021. North Somerset Council holds circa 3,000 assets and the programme involves categorising these in terms of operational priority, determining how these assets will be held by NSC in the future and, if retained, their operational and maintenance requirements.

3.5 The process will consider the decarbonisation pathway for the core buildings in the Council’s Scope 1 and 2 of greenhouse gas (GHG) emissions as part of the priority assessment process to inform the initial assessment of the properties. This will support the Council’s ambition to become net zero organisation by 2030. The Council’s scope 1 and 2 list includes the core assets from which council operates and has direct sphere of influence.

- 3.6 This update focuses on the implementation of the SAMP's:
- Property Categorisation Model.
 - SAMP Decision Making Process (asset retained, adapted, developed or disposed).
 - Planned & Preventative Maintenance Strategy, Building Compliance, Building Management Strategy.
- 3.7 These steps and process will be informed by the corporate transformation process – to ensure that decisions about buildings are informed by strategic delivery of services and Governance.
- 3.8 This process compliments the Council's commitment to adopt a Corporate Landlord Operating Model, which will seek to ensure that all assets are properly overseen and managed at the corporate level.
- 3.9 At this stage the SAMP assessment process is primarily focusing on buildings, however connected workstreams looking at land-based assets are also progressing through the Development Programme and through work to identifying sites for renewables and biodiversity: these will be reported separately.

Property Categorisation Model:

- 3.10 The adopted SAMP policy sets out a review plan of staged assessments over 10-year period. The initial February 2021 report identified 742 sites as "core" assets, from the full list of over 3,000 that we own.
- 3.11 Property and Projects Officers have carried out a short review and refresh of the initial classifications in a two-stage process:
- Stage 1: Review of SAMP core assets to identify and remove assets such as farmland, carparks, playing fields etc. where there are no built assets that require maintenance (these will be looked at separately/later).
 - Stage 2: assess the remaining list using a priority-based matrix to identify the priorities and programme of core assets for further work in years 1-5.
- 3.12 The intention is to work on 'core' assets in years 1 to 5 and 'non-core' in years 6 to 10 of the plan. The above steps identified 473 "core" assets that will be the priorities for the first five years (equating to assessments and decisions on approx. 100 properties/year).
- 3.13 The core asset list was assessed using a priority-based scoring matrix, resulting in a rating of 1 – 4, with 1 being 'high priority' and 4 being 'very low priority'.
- 3.14 Within this process, high priority assets are defined as assets that are essential to service provision, where a lack of maintenance could impact on service delivery and health and safety of staff and visitors, or where the Council has a significant liability for the asset with no income or service provision. Low priority assets are those where there is little or no risk of disruption to Councils services and little or no financial risk.
- 3.15 The assessments relate to the likely impact of the loss of the asset, not its current physical condition (which will require surveys etc to fully assess).

3.16 The full definitions of priority levels are attached for reference at Appendix A.

SAMP Decision Making Process (asset retained, adapted, developed or disposed):

- 3.17 *“Property assets are a major Council resource and robust management processes and procedures need to be in place to ensure that they are well performing and serving their purpose in supporting service delivery, generating a return or supporting development and regeneration.”* [SAMP, 2021]
- 3.18 Once the list of ‘core assets’ has been finalized, these will then be subject to the SAMP decision-making assessment.
- 3.19 The SAMP objectives have been translated into a decision-making matrix, posing a series of question based on the ability of the building to deliver the Councils services, including location, suitability, layout and condition.
- 3.20 This will ensure that those assets that are supporting front line services are assessed, scored and categorised. Through the assessment process, opportunities will be identified to reduce the operational estate, generate income, capital receipts or bring forward development. Therefore, the assessment process will help the council to determine whether an asset should be retained, adapted, developed or disposed in line with ISO 55001 requirements.
- 3.21 Decision-making requires detailed information on the properties, this includes financial and operational information, strategic input from services, building maintenance costs and details of the decarbonisation pathway.
- 3.22 The SAMP decision-making process will be overseen in the first instance by the council’s Corporate Assets and Property Board and Capital Programme, Projects and Planning Board. There will be regular updates to the Corporate Leadership Team, Executive and Scrutiny & Policy Panels.

Planned & Preventative Maintenance Strategy, Building Compliance, Building Management Strategy:

- 3.23 *“Property assets are a major Council resource and robust management processes and procedures need to be in place to ensure that they are well performing and serving their purpose in supporting service delivery, generating a return or supporting development and regeneration”* [SAMP 2021].
- 3.24 A robust management process is required to maintain our assets to enable the delivery of the Council’s services and to prevent risks to staff, service-users and the wider community.
- 3.25 Over the past years, maintenance has been reactive – i.e. we generally intervene only when something is already broken. We need to move to a more robust and regularised service. This process will comprise of three separate elements that provide a comprehensive management strategy.

Compliance inspections:

- 3.26 The Council has statutory requirements to comply with, these include the undertaking checks and routine servicing and inspections of equipment servicing within the property assets (for example electrics, fire alarms, ventilation, water). A

failure to undertake these compliance checks could lead to prosecution of the Council and individual officers under. These checks will be monitored through the Concerto software.

- 3.27 Compliance requirements relate also to buildings the Council leases in and, in some cases the buildings the Council leases out. Statutory and Regulatory obligations can also extend to structures that are not buildings, such as war memorials.

Building Management:

- 3.28 Currently the Council only undertakes a compliance-based approach to building maintenance. It is proposed a more robust approach is instigated; this will be based on a checklist completed by the responsible person in each building. Building managers will be provided with training including how they identify issues and risks and escalate where needed.

Planned and Preventative Maintenance:

- 3.29 Full condition surveys should be undertaken of the buildings every five years, as part of a rolling programme to assess in detail the condition and develop a proactive maintenance plan.

Decarbonisation of NSC assets

- 3.30 The council has an aspiration to achieve carbon net zero by 2030. The works and costs of achieving this are difficult to assess on the existing estate. A full decarbonation survey and identification of works required needs to be undertaken and then linked into the Planned and Preventative Management Plan (PPM Plan) identified above.
- 3.31 We will identify the properties that need to be prioritised by carbon use, and feed these into our initial core asset assessment process. We will look to prioritise the high-risk core buildings within Scope 1 and 2 of GHG emissions in this process.
- 3.32 A full decarbonisation assessment of each building in the estate will need to be undertaken, in order to identify whether it will be possible for the building to achieve a net zero status. Where this is not possible then options to offset the shortfall can be identified.
- 3.33 The decarbonisation works will be complex and will involve widespread alterations and adjustments to the building. By undertaking these as part of the PPM we will maximise efficiency of any available budgets and group works together in a cohesive programme.
- 3.34 The PPM programme will provide us with an accountable framework to manage and monitor progress of this element, within the existing estate.

Development Programme

- 3.35 In February 2021, the Council adopted a Development Strategy for the delivery of homes and employment on land in its ownership. This included the following four objectives:

- To provide homes and jobs that meet the needs of our communities – current and future – while helping deliver government targets for housing supply.
- To offer better quality and more sustainable developments..
- To deliver sites that the market won't, including difficult brownfield land and employment sites.
- To generate funding to help deliver other priorities, such as investing in schools, transport links and leisure facilities.

3.36 To date, two development sites have been brought forward:

- 425 new homes at Parklands Village in Weston. This includes 30% affordable housing (compared to 12 – 13% on adjacent sites) and 30% net zero homes, with all other homes seeing at least a 75% reduction in carbon emissions compared to standard housing. Our development partner, Keepmoat Homes, is making good progress on site and the first showhome was launched on 23rd November.
- 52 homes at The Uplands in Nailsea. These homes are high quality design and meet flagship Passivhaus standards. 40% of the homes will be affordable, with an above policy level of adaptable and accessible housing, as including a small number of bungalows. Our development partner, Stonewood Homes, started on site in Summer 2023 and is making good progress with the first homes due to be available in 2024.

3.37 Development activity is not solely focused on housing. As reported to the Executive earlier in 2023, Heads of Terms have been signed with a significant manufacturing company seeking to build new premises on council-owned land at Weston Business Quarter, creating around 300 jobs. Weston Town Centre and Castlewood sites are expected to include elements of commercial and community provision.

3.38 The progress above demonstrates that the council through control of the delivery of development on its own land can deliver high quality homes with positive outcomes for its residents and communities. In addition, the sites between them will generate a total approaching £15m in capital receipts to the delivery of other capital projects, as well contributing to infrastructure and services through S106 and the Community Infrastructure Levy (CIL).

3.39 Commissioning Plans have been agreed for town centre sites in Weston-super-Mare, Parklands Village phase 2, and Castlewood in Clevedon.

3.40 Progress on the Weston sites has been slower than hoped. This is largely due to the economic turmoil of autumn 2022, which led to the launch of an exercise to procure a development partner being put on hold. The continued economic pressures have increased the financial challenges of the sites, which already were only marginally viable.

3.41 Officers have been reviewing options for site delivery. A paper is expected to be taken to January Council providing updates and may also propose changes to delivery options. This is likely to suggest prioritisation of the Dolphin Square, Walliscote Place and Castlewood sites in the first instance.

3.42 Officers are also re-considering options for partnership with a local authority development company such as Aequus (owned by Bath & North East Somerset Council). This would have the advantage of shortcutting lengthy procurement

processes, and that companies such as Aequus take a lower level of profit than private sector developers, increasing the viability of sites. The Council in such circumstances retains a good level of control over the final 'product' that is delivered.

- 3.43 The Weston town centre sites will nonetheless remain financially challenging, and public sector subsidy from the council or another body such as Homes England is likely to be required. A positive factor is that Homes England has this year revised its Corporate Strategy to place a greater emphasis on the delivery of difficult urban sites and regeneration.
- 3.44 Work will continue on other development sites owned by NSC, including Parklands phase 2, with the intention of creating an ongoing pipeline of delivery, but also taking into account the results of public consultation on the programme held in 2022. This includes considering the priorities and mix of housing and employment for such sites, including whether there are options to provide specialist or supported affordable housing to meet pressures reported through Adult and Childrens' Services. The paper to Council in January is expected to make recommendations as to which sites and types of provision will be prioritised.

Governance and monitoring

- 3.45 These programmes are overseen by the council's Corporate Assets and Property Board and Capital Programme, Projects and Planning Board. There will be regular updates to the Corporate Leadership Team, Executive and Scrutiny & Policy Panels. This will include annual reviews of progress, supported by quarterly reporting on KPIs.

4. Consultation

- 4.1 The SAMP programme in itself does not involve ongoing consultation, however proposals as they come forward will be subject to a range of engagement activities both with internal and external consultees – for example to determine the future use and ownership of a building or in taking forward a development proposal.

5. Financial implications

- 5.1 This report does not in itself bring financial implications. However the SAMP process as a whole will incur a range of costs, for example in officer time, building surveys, investment and maintenance – as well as opportunities for savings, for example through energy efficiency, lower overall property costs, and/or income through rent or disposals. The implications of this will be considered as part of the council's MTFP and Capital Strategy.
- 5.2 Specific proposals and projects will be examined through further business cases and formal decision-making where required.

6. Legal powers and implications

- 6.1 The recommendations of this report do not in themselves have legal implications. As decisions within the SAMP plan are further developed, there may be legal implications for the council (as to retaining, disposing or maintaining assets). These will be considered through formal governance arrangements and decisions as required by the council's constitution.

7. Climate Change and environmental implications

- 7.1 The delivery of the Strategic Asset Management Plan will be crucial to delivering the North Somerset Climate Emergency Strategy & Action Plan to achieve becoming a net zero carbon council by 2030 and having an energy efficient built environment.
- 7.2 It is also imperative that the strategy embraces a commitment to sustainable development, particularly contributing to the allocation of sites for the required infrastructure needed to support economic growth and new homes, including for example education, community facilities, transport, local waste and energy.
- 7.3 There has been significant input from the council's Climate Emergency project manager and to ensure alignment with the council's Climate Emergency Action plan. The SAMP has a decarbonisation strategy for those assets which is maintaining and managing.

8. Risk management

- 8.1 The condition and management of the Council's estate is recognised as a key corporate risk (and opportunity) which the SAMP is intended to address.

9. Equality implications

- 9.1 No specific Equality Impact Assessment has been completed for this progress update. Individual projects associated with assets will be subject to EIAs as required.

10. Corporate implications

- 10.1 The SAMP work is a cross-cutting issue and a corporate priority which will be managed as a transformation programme; all services will be engaged to assist in delivery of the plan.

11. Options considered

- 11.1 This report is for information, reporting on progress against the SAMP as agreed in February 2021.

Authors:

Steve Matthews, Senior Technical Lead, Projects & Property
Ann Hunter, Senior Project Manager, Projects & Property

Appendices:

N/a

Background papers:

Asset, Accommodation and Development Strategies, February 2021: <https://n-somerset.moderngov.co.uk/documents/s780/22%20Asset%20Accommodation%20and%20Development%20Strategies.pdf>

Category definitions for assessments of assets*Level 1: High Priority:*

These are assets that are essential to service delivery where alternative locations are not possible, buildings that have high footfalls and where a lack of maintenance could prevent delivery of key Council Services. An example of this would be a school or Childrens Centre.

This priority would also include properties where the council has a repairing liability and may not have budget streams for maintenance where there are significant outstanding repairs that are a health & safety hazard or where the property has a high risk of containing hazardous materials such as RAAC. An example of this would be a Community Centre where the Council does not provide services, no staff are based at the site and no income is generated, but there is a liability for maintenance and repairs and the building is in poor condition.

High Priority would also include council assets in Scope 1 and 2 of greenhouse gas emissions to support the decarbonisation of the estate.

Level 2: Medium Priority:

These are assets that essential services are delivered from, but alternative locations are possible, buildings that have low footfalls and where a lack of maintenance could interrupt delivery of Council Services. An example of this would be an office location, while disruptive staff could relocate without temporary disruption to service provision.

This priority would also include properties where the council has a repairing liability and may not have budget streams for maintenance but where there are outstanding repairs that are not significant or a health & safety hazard. An example of this would be a Sports Pavilion where the Council does not provide services, no staff are based at the site and no or a very small income is generated, but there is a liability for maintenance and repairs and the building is in reasonable condition.

Level 3: Low Priority:

These are properties that non-essential services are delivered from, buildings that have low footfalls and where a lack of maintenance would not significantly affect delivery of Council Services. This priority would also include properties where the council has a repairing liability and may not have budget streams for maintenance but where there are outstanding repairs that are not immediate requirements.

Level 4: Very Low Priority:

Assets that are substantial but are leased and managed under full repairing and insuring leases where there is minimal liability to the Council such as commercially let properties.

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North Somerset Council

Report to the Transport, Climate and Communities Policy and Scrutiny Panel

Date of Meeting: 30/11/23

Subject of Report: Rights of Way Improvement Plan

Town or Parish:

Officer/Member Presenting: Esther Coffin-Smith

Key Decision: No

Reason: This report is for informational purposes

Recommendations

To consider the progress made on the Rights of Way Improvement Plan (RoWIP) and to review progress annually hereafter.

1. Summary of Report

The Council's second Rights of Way Improvement Plan was approved in December 2022. Since then the Public Rights of Way Team have been working towards the delivery of the action plan, securing funding from the UK Shared Prosperity Fund (UKSPF) and prioritising the £100K capital allocation spend.

2. Policy

The Rights of Way Improvement Plan supports the Corporate Plan priority of being a 'thriving and sustainable place,' through the ambition to provide a rights of way network that is accessible, provides a low-carbon alternative for travelling around North Somerset, attracts tourism to our region and contributes to the health and wellbeing of both residents and visitors.

3. Details

The focus for the end of 2022/23 and early 2023/24 has been ongoing maintenance and responding to public concerns, planning the capital-funded improvement works for this financial year and recruitment. We have also been planning for a UKSPF-funded project to deliver accessibility improvements across 15 North Somerset public rights of way routes and to communicate this as widely as possible.

Staff capacity

In order to address some outstanding work areas it has been necessary to temporarily increase staff capacity. We now have a joint post with the Sustainable Transport Team to progress the Strawberry Line extension project (Yatton to Clevedon), a long-term ambition of the council and to address the backlog of Public Path Orders, one element of the RoWIP action plan. This post has been successfully filled and progress is being made on both

work areas. The team has also successfully recruited into a vacant Access Support Officer role with the new appointment joining the team in November.

We have also not been proactive in sharing the good work we carry out, or the wide range of recreational opportunities provided by our rights of way. A 12-month fixed term communications post has been funded through the UKSPF to address this and joined the team in July. This communications expert will enable the PRow team to reach new audiences both for the promotion of the improved routes funded by North Somerset Council but also rights of way more generally. Ahead of the improvement works on the 15 routes being completed, we have been developing a communications and engagement plan, working to improve the range of material on the PRow internet pages and providing dedicated support to promote the ongoing work across the PRow network through methods such as social media posts, articles and attending events.

UKSPF

The government's UK Shared Prosperity fund has provided £36K to improve routes and communicate the improvements. We have selected 15 public rights of ways across North Somerset (including in: Backwell, Bleadon, Churchill, Clevedon, Hutton, Kewstoke, Long Ashton, Nailsea, Weston in Gordano, Winscombe), many of which are also routes to schools. We are proposing a wide range of improvement measures including: vegetation removal/overhanging branch reduction, tarmacking of paths, re-stoning of paths, improving sight lines, bridge refurbishment/replacement, gate removal, pothole repair and creation of ramped access. Approximately half the routes will be addressed this financial year, as funds allow, with the remainder in the 2024-25 period.

2023-24 Capital Allocation

The PRow team have been allocated £100k for both 2023-24 and 2024-25 to deliver the improvements highlighted in the RoWIP, as nominated by the town and parish councils. There are 292 suggested route improvements on our list. 173 of these have been completed, 12 are under investigation or in progress and the remaining 107 are not currently possible to achieve or have been investigated and no work is required at this time.

This will be used to fund the route improvements as well as some pedestrian counters to monitor footfall across the routes ahead of the improvements being made, to enable us to demonstrate an improvement in usage post-works. This will be achieved through better accessibility for users but also through improved awareness of the route through the work of the communications officer.

4. Consultation

N/A

5. Financial Implications

The costs of the post, pedestrian counters and improvements are being met through the capital allocation and UKSPF grant.

Costs

UKSPF Salary costs - £9K

UKSPF Funding for route improvements - £26K

NSC Capital allocation - £100K (£16.5K for pedestrian counters, the remainder for route improvements)

Funding

As above.

6. Legal Powers and Implications

N/A

7. Climate Change and Environmental Implications

The existence and efficiency of a good Public Rights of Way Network supports the Council's aim to encourage active and sustainable (low-carbon) lifestyles. It also contributes towards achieving our Green Infrastructure Strategy by allowing people to connect with nature.

8. Risk Management

N/A

9. Equality Implications

Yes. The route improvements will provide better accessibility for a wider range of people.

10. Corporate Implications

The rights of way network is a valuable resource for being able to enjoy the beauty and tranquillity of large parts of the North Somerset countryside. Improvements to routes increases the likelihood that they will be used and contribute to health and wellbeing together with supporting our Climate Emergency by providing sustainable, low-carbon options for travelling to school or work and for accessing local services such as shops, health facilities or to reach public transport. The also attract visitors so a well-maintained and accessible network also supports North Somerset's economy and reputation.

Author:

Esther Coffin-Smith, Natural Environment Manager, 01934 426513.

Appendices:

None

Background Papers:

Rights of Way Improvement Plan 2022.

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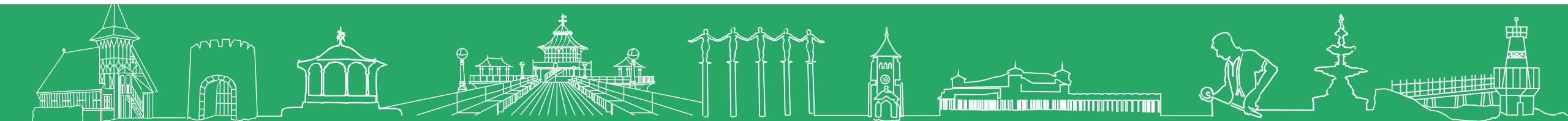
Rights of Way Improvement Plan

Transport Climate & Communities Scrutiny Panel

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30th September 2023

Esther Coffin-Smith, Natural Environment Manager



Examples of Improvements



Autumn 2012



Spring 2013



Summer 2023



Monarch's Way

Winford



King Charles III England Coast Path



ROWIP 2022

Progress

NSC's second Rights of Way Improvement Plan was approved in December 2022.

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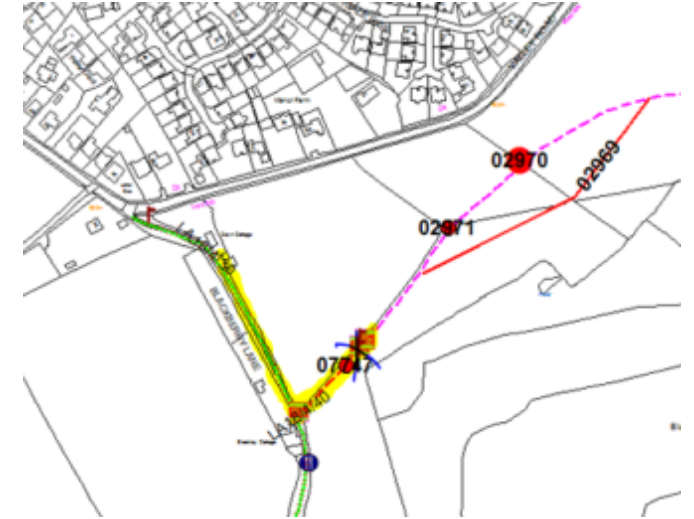
The focus for 2023/24 so far has been:

- ongoing maintenance
- responding to public concerns
- planning the capital-funded improvement works for this financial year
- planning/preparing for a UKSPF-funded project to deliver accessibility improvements across 15 RoW
- recruitment

UK Shared Prosperity Fund

- £36K to improve routes & communicate the improvements
- **15 public rights of ways** across North Somerset (including in: Backwell, Bleadon, Churchill, Clevedon, Hutton, Kewstoke, Long Ashton, Nailsea, Weston in Gordano, Winscombe)
- Wide range of improvement measures including: **vegetation removal/overhanging branch reduction, tarmacking of paths, re-stoning of paths, improving sight lines, bridge refurbishment/replacement, gate removal, pothole repair and creation of ramped access**
- Approximately half the routes will be addressed this financial year, with the remainder in the 2024-25 period.
- Installation of 15 footfall counters

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Examples of routes requiring improvement

Vegetation cut-back
& surface repairs



Vegetation cut-back
& stoning of paths



Creation of
ramped
access



2023-24 Capital Allocation

- £100k allocation each year for 2023-24 and 2024-25 to deliver the improvements highlighted in the RoWIP

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292 route improvements nominated by Town and Parish Councils:

- 173 of these have been completed,
 - 12 are under investigation or in progress
 - 107 are not currently possible to achieve or have been investigated and no work is required at this time.
- 2023-24 allocation will be used to fund the route improvements and pedestrian counters to monitor footfall
 - UKSPF Comms role will promote these improvements

2023-24 Projects

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Parish	Path No	Proposed Solution	Approx. cost
Backwell	LA2/32/20	Heavy vegetation cut back. Check drains. Retarmac path.	£15,000
Bleadon	LAX6/12	Clear vegetation and re-stone path.	£2,000
Bleadon	AX6/14/10 (River Axe Boardwalk)	Move the boardwalk onto the bank to avoid flooded area	£5,000
Churchill	X10/104/10	Stone whole length (inc. field)	TBC
Churchill	Dolebury Warren	Install boardwalk to bypass the terrain difficult for trampers	TBC
Clevedon	LA22/1/10	Cut back vegetation. Build over existing mud path and create stone all weather surface.	£5,000
Clevedon	LA22/19/90	Clear vegetation and lay 2m wide stone path	£9,000
Clevedon	LA22/38/10 (ZigZag Path)	Steps to be reinstated and handrail to be refurbished	£15,000
Congresbury	AX16/20	Replace with new timber bridge	£2,500
Hutton	AX18/8/10	The path requires a 2m wide stoned path & heavy vegetation cutback.	£7,000

2023-24 Projects

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Parish	Path No	Proposed Solution	Approx. cost
Kewstoke	AX19/9/30	Replace and repair existing bridges	£24,000
Long Ashton	LA12/42/10	Repair/replace existing worn and potholed surface	£20,000
Nailsea	LA13/12/40	Remove steps and create ramped access	TBC
Nailsea	LA13/11/20	Veg cut back and tarmac full length	£7,500
Nailsea	LA13/37/20 (Crewkern Close)	Replace with new timber bridge	£2,500
Weston in Gordano	LA18/4/30	Heavy vegetation cut back. Stoned path for part of route. Reinstate fence line.	£6,000
Weston super Mare	AX31/84/10 (Milton Park Road to Milton Park Rise)	New wearing course	£8,000
Weston super Mare	AX31/77/10 (Landiman Circus)	Potholes to be filled and surface reinstated	£3,000
Winscombe	AX29/10/10	Stone paths and cut back vegetation.	£10,500
Winscombe	AX29/45/40 (Green Hill Lane to Sandmead Road.)	Stone a 2metre wide path & heavy vegetation cut back.	£14,000

Any questions?

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North Somerset Council

Report to the Transport, Climate and Communities Policy and Scrutiny Panel

Date of Meeting: 30/11/23

Subject of Report: Green Infrastructure Strategy Update

Town or Parish:

Officer/Member Presenting: Esther Coffin-Smith

Key Decision: No

Reason: This report is for informational purposes

Recommendations

To note the progress made on the Green Infrastructure Strategy action plan and review progress annually hereafter.

1. Summary of Report

Well planned and managed, functioning green infrastructure is crucial for people, places and nature and is a key component in tackling the nature and climate emergency. The 2021 Green Infrastructure Strategy Action Plan covers strategic short-term, medium-term and long-term actions in order to take forward the recommendations and deliver the vision, aims and objectives of the strategy. The Action Plan is a live document which will be reviewed annually which this report details.

2. Policy

The Green Infrastructure Strategy and Action Plan supports the Corporate Plan vision to be 'green' through leading our communities 'to protect and enhance our environment' and priority of being a 'thriving and sustainable place.'

3. Details

The GI Strategy covers 6 theme areas: Access Networks, Biodiversity and Habitats, Development Integration, Greenspace Stewardship, Trees and Woodland and Flood Risk and Water Quality. The action plan contains 54 separate actions of which only those due in the shorter term will be covered in this report. The theme of flood risk and water quality will also be brought separately to the Panel.

Access Networks

There are 2 short-term actions – to publish the Rights of Way Improvement Plan and overlay the PROW network with the GI opportunity areas to identify gaps in the ROW network. The ROWIP 2022 was approved by Executive in December 2022 and will be online shortly and the gap identification has been included within the ROWIP action plan.

Biodiversity and Habitats

In this section of the action plan there are numerous short-term actions, some of which have been grouped here due to interdependencies. An update on progress is detailed below.

- *Prepare a strategic plan for improving biodiversity in the North Somerset Nature Park and Develop improved habitats for greater horseshoe bats.*
 - We have commissioned the University of the West of England Bat Lab to identify the best locations for these Nature Parks to best support the protection and enhancement of land for the benefit of bats.
 - We are in the process of updating the North Somerset and Mendip Bats SAC Guidance on Development: Supplementary Planning Document to take account of the new North-Somerset-wide habitat and connectivity modelling and made reference to the areas of specific importance for these sites within the Local Plan.
 - We are also embarking on our first land purchase to create the first Nature Park and discussing the inclusion of Nature Parks within strategic developments where habitat and connectivity for greater horseshoe bats have the potential to be improved.

- *Delivering Biodiversity Net Gain (BNG).*
 - We have drafted and are consulting on a new supplementary planning document (SPD) on Biodiversity which includes the new mandatory BNG requirements.
 - We have assessed NSC-owned land for the potential to create BNG units
 - We have engaged legal support on the creation of mechanisms (section 106 agreements) through which to secure BNG with developers and also to pursue the ambition of creating a Habitat Banking Vehicle through which NSC could sell the BNG units generated on its own land.
 - We will recruit an additional Ecology Officer to manage the increased workload of assessing the BNG Plans submitted through the planning process once the legislation becomes mandatory (January 2024).

- *Create a citizen science project with the University of the West of England (UWE) to improve understanding of bat populations across North Somerset.*
 - For the past 2 years we have worked in partnership with UWE to enable the public to use our static bat detection equipment to collect bat data that will be used to continually update our knowledge and datasets, ensuring our policies remain relevant in terms of Planning and other purposes. This data has also been used to inform the new habitat and connectivity modelling.

- *Natural Capital Valuation tools.* This has not been progressed.

Development and Integration

There are 3 short-term actions from this section of the action plan including mainstreaming green infrastructure and the inclusion of Building with Nature Standards within the Local Plan and creating North Somerset Nature Parks for strategic bat mitigation. The green infrastructure objectives and North Somerset Nature Park principles have been included in the Local Plan and the Building with Nature Standards are encouraged through the draft Biodiversity Supplementary Planning Document.

Greenspace Stewardship

- *Complete an open space access assessment.* This has not yet been completed due to staff capacity.
- *Rewilding champions lottery project.* This £100,000 grant funded project with Avon Wildlife Trust, delivered between July 2021 and November 2022, saw residents volunteering to measure biodiversity to determine the success of the council's rewilding efforts. The project delivered 30 public engagement sessions, attended by 372 people and 70 survey sessions, attended by 139 volunteers totalling around 300 volunteering hours. 10 Rewilding Champions were recruited and are leading volunteers at some of our rewilding sites.
- *Worlebury hillfort lottery project.* NSC applied for this funding but was unsuccessful. S106 monies have been secured from National Grid to undertake a smaller scale level of ash removal and ride creation. It is proposed to submit a new lottery application in 2024, subject to staff capacity.
- *Infrastructure survey of parks and open spaces.* To carry out a condition survey of parks an open spaces infrastructure to be completed by August 2022. All survey protocols have been completed and a management system is being installed. Proactive inspections will commence in January 2024 following successful installation of the management system.
- *Parks improvement plan.* Develop a strategy for our parks and play areas which reflects contemporary needs, enhances community engagement, considers new ways for delivery and raises more income to be completed by December 2024
- *Green Social Prescribing project.* A UKSPF funded Ranger starts in November 2023 who will be seeking opportunities to bring green social prescribing providers into NSC parks and open spaces on NSC-led activities such as scrub clearance, tree planting, wildlife surveying, etc. for the benefit of wildlife and health and wellbeing.
- *Great lakes project.*
 - Weston super Mare Marine Lake project is complete.
 - The MARLENS improvements and Pier Trust projects are complete.
 - There has been a delay in addressing the gig club storage and slipway improvements both of which should be finalised by February 2024.
 - Portishead Lake Grounds improvements have been made to The Esplanade and Lake surround. An aerator has been installed to improve water quality. A project is underway, to be completed by summer 2024 to improve the café.

Trees and Woodlands

- *Publish and deliver the Ash dieback action plan.* This is complete with the Action Plan being published in September 2022.
- *New orchard planting.* The Defra-funded Wildlife and Woodland Expansion Officers are investigating opportunities for orchard planting as part of ongoing efforts to meet our 25% increase in canopy cover target by 2030.
- *Iconic trees; protecting our levels and moors trees.* An initial piece of work has been completed identifying these trees and using s106 funds we are hoping to progress

this with the Forest of Avon Trust to contact the landowners with advice on grants amongst other things.

4. Consultation

We consulted on the original GI Strategy and this led to the development of the action plan. We have consulted on relevant individual items as they arose, such as the Biodiversity SPD.

5. Financial Implications

There are no implications from this update report.

Costs

N/A

Funding

N/A

6. Legal Powers and Implications

N/A

7. Climate Change and Environmental Implications

The Green Infrastructure (GI) Strategy provides the framework for improving the connectivity, quality, and overall provision of GI, in order to maximise environmental, social and economic benefits and address diverse policy requirements including health and wellbeing, biodiversity and climate change.

8. Risk Management

Risk is considered for each individual action.

9. Equality Implications

None.

10. Corporate Implications

The delivery of the Green Infrastructure Strategy action plan will support a range of council services including: Natural Environment Team, Parks and Open Spaces, Health and Wellbeing and Sustainability.

Author:

Esther Coffin-Smith, Natural Environment Manager, 01934 426513.

Appendices:

None

Background Papers:

Green Infrastructure Strategy



NORTH SOMERSET COUNCIL

Green Infrastructure Strategy



Parks



Beaches



Green spaces



Countryside



Waterways



Wildlife

ethos
Environmental Planning



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1. INTRODUCTION

1.1 Overview

Ethos Environmental Planning Ltd (Ethos) were commissioned by North Somerset Council to produce a Green Infrastructure Strategy for the district.

The Strategy sets out the strategic Green Infrastructure (GI) network within North Somerset until 2030. It provides the framework for improving the connectivity, quality, and overall provision of GI, in order to maximise environmental, social and economic benefits and address diverse policy requirements including health and wellbeing, biodiversity and climate change.

It provides a robust evidence base to inform the preparation of GI planning policy in the Council's new Local Plan (covering the period up to 2038) and will support and help deliver the requirements and aims of national, regional and local policy and strategy, including the Council's vision for 'An open, fairer, greener North Somerset'.

The strategy also supports the Council's management of its own land, and recognises the importance of third-party land in positively contributing to GI within the Study Area. It provides an action plan for the delivery of both short-term and long-term GI projects.

A draft strategy was produced following initial consultation with North Somerset Council's Natural Environment Team. The draft strategy was then consulted on between February – April 2021, in order to produce this final version of the strategy. Further information regarding the consultation undertaken is provided in Section 7 of this report.

Green infrastructure (GI) is a strategically planned network of natural and semi-natural areas with other environmental features designed and managed to deliver a wide range of benefits (known as ecosystem services) such as water purification, pollination, timber and crop production, air quality, space for recreation and climate mitigation and adaptation. Ecosystems and the services they deliver underpin our very existence. However, they are being degraded by many pressures, including from agricultural management, climate change, hydrological change, urbanisation, pollution, woodland management and invasive non-native species (State of Nature Report 2019). Degraded ecosystems are less biodiverse and are unable to offer the same services as healthy ecosystems.

Well planned and managed, functioning green infrastructure is crucial for people, places and nature and is a key component in tackling the nature and climate emergency.



Photo: Severn Estuary by Charlie Fayers

1.2. Aims and scope of the Strategy

1.2.1. Aims

The overall aim of the Strategy is to protect high quality and restore poorly performing GI, whilst enhancing other areas where possible within North Somerset, in order to maximise the multiple benefits (ecosystem services) that the natural environment provides. These ecosystem services include pollination and food production, timber production, climate regulation, air and water quality regulation, increased flood resilience, maintenance of biodiversity and space for recreation (to name a few). Ecosystem services are essential to the survival of humanity, and in tackling priorities such as the health and wellbeing of individuals and communities, and the nature and climate emergency.

The Strategy also aims to raise awareness of the importance and multiple benefits of GI and sets out actions that can be undertaken by the Council, residents, businesses and other partners, to protect and enhance GI.

An important role for the strategy is to provide a framework that engages positively with a wide range of disciplines and interests to protect, restore and create GI within North Somerset.

1.2.2 Scope

The Strategy identifies the existing significant green and blue assets and corridors within North Somerset and identifies opportunities for improving connectivity and quality/functionality, for both people and wildlife. It provides a joined-up approach with the West of England Unitary Authorities and considers strategic GI within adjoining local authority areas, recognising that GI networks operate across boundaries, and at multiple scales.

The Strategy provides a robust evidence base, enabling a coherent approach to decision making, planning policy and development management recommendations. It has been undertaken in accordance with the National Planning Policy Framework (NPPF), which requires that local planning authorities should set out a strategic approach in their Local Plans, to maintaining and enhancing networks of habitats and green infrastructure. It has been informed by the West of England Joint Green Infrastructure Strategy (JGIS) (2020-2030) where we share objectives and will support the delivery of regional priorities.

The Strategy covers the following:

- Setting the case for GI in the context of the nature and climate emergency.
- A review of relevant policy, strategy, and research, to provide the strategic context for the strategy and identify how the strategy can contribute to wider national, regional and local agendas including climate change, health and wellbeing, biodiversity, sustainable transport, sustainable growth and food security.
- Summary of the consultation undertaken to inform this strategy.
- Mapping of key strategic GI assets (in a GIS layer and report maps) by themes (Water/Blue GI; Access Routes/PROW and Open Space; Biodiversity and Habitats; Food Growing Areas and Heritage and Landscape).
- Identification of key strategic GI corridors within NS, including links to neighbouring local authority areas;
- GI vision and objectives for North Somerset;
- Identification of opportunities for improving the functionality of the GI network, for both people and wildlife, through planning and development; utilising third party land; and NSC land. This considers quality, connectivity and access to GI.
- Existing standards and mechanisms for planning and delivering good quality GI through new development, and provides examples of best practice;
- GI policy recommendations to take forward in the new Local plan;
- Setting out how the strategy will be implemented, monitored and delivered, with a 10 year action plan which sets out both short term and long-term actions.

This Strategy refers to existing open space standards (GI standards) which were developed in 2009 and are set out in the North Somerset Development Contributions Supplementary Planning Document (January 2016).

1.3 Report structure

Green Infrastructure underpins all of our lives and is essential to a healthy and resilient environment – and therefore to healthy and resilient communities, and a sustainable economy. Due to its multifunctionality, GI covers a vast subject area and this strategy has therefore sought to achieve a balance between providing sufficient and relevant information for non-specialists, while also being as concise as possible.

This GI Strategy report includes the following sections:

Part 1: Main Report (this report)

- Introduction
- What is Green Infrastructure and why do we need a Green Infrastructure Strategy?
- Vision, Aims and Objectives
- Understanding the Value of Green Infrastructure
- Planning for Good Quality Green Infrastructure
- Policy Context
- Summary of Consultation
- Existing Green Infrastructure in North Somerset

- Opportunities for Improving Green Infrastructure – through NSC Land, Third Party Land and Planning and Development
- Delivery and Monitoring

Part 2: Action Plan

The Action Plan is provided as a separate Document.

Appendices

There are also a series of appendices (1 to 7) which provide further detail. These are set out within the contents page and are referred to throughout the report.

1.4 Study Area

Overview of North Somerset District

Figure 1 - Study Area



North Somerset covers an area of around 37,500 hectares (145 square miles) with a population of 215,052 (ONS mid 2019 population estimate). It lies south west of Bristol, abutting the city boundary to the north and east. The Severn estuary coast to the west and the Mendip Hills in the south. There is a varied landscape with coastal and rural, international and national designations such as Sites of Special Scientific Interest and the Mendip Hills Area of Outstanding Natural Beauty.

North Somerset’s primary town is Weston super Mare, followed by Clevedon and Portishead (which are all located on the coast). The other main town of Nailsea is located on the outer edge of the Green Belt near Bristol.

Levels of deprivation (IMD) within North Somerset are generally low. However, parts of Weston-super-Mare have some of the highest levels of deprivation in England (see Appendix 2, Section 5). Green infrastructure can help improve quality of life in areas of deprivation.

The geographical location of North Somerset makes it an attractive tourist destination. Its combination of coastal setting, beautiful countryside, accessibility via the M5 and Bristol Airport, and close proximity to Bristol, the City of Bath (a World Heritage Site), Cheddar Gorge, Wells and the rest of Somerset make it a versatile location which could appeal to a wide tourist market.

Environment and Landscape Context

The landscape of North Somerset is highly varied, with open moors and river flood plains contrasting with ridges, gorges and rolling farmland. In the north of the district there are a large number of Registered Parks and Gardens and extensive woodland, which in combination with the varied topography limits visibility. Elsewhere in the district tree cover is concentrated on the slopes of hills and ridges, and long-distance views are available from areas of high topography across the open moors and flood plains.

The natural environment of North Somerset contributes substantially to the identity, sense of place and quality of life in the district, as well as its economy and attractiveness as a place in which to live and invest.

The predominantly rural setting throughout North Somerset coupled with its varying geology and topography has resulted in a landscape of great nature conservation value which is reflected in the number of international, national and locally designated sites throughout the area. This includes: 4 Special Areas of Conservation¹ (SAC), including the Severn Estuary European Marine Site (which is a SAC, Special Protection Area (SPA) and Ramsar site); 56 Sites of Special Scientific Interest (SSSI), 2 National Nature Reserves (NNR), 13 Local Nature Reserves (LNRs) and the Mendip Hills Area of Outstanding Natural Beauty (AONB).

There are also 204 Local Wildlife Sites and 77 Local Geological Sites (non-statutory designated sites), and 860km of Public Rights of Way across the district. The Forest of Avon Community Forest also falls within North Somerset.

North Somerset has a diversity of habitats, including limestone grasslands, traditional orchards, wetlands, rhynes, commons, moorland, hedgerows, ancient woodlands, estuary, maritime cliff and saltmarsh. These habitats in turn support a rich diversity of wildlife, including many protected and important species such as horseshoe bats, otters, dormice, water voles, great crested newts, hedgehogs, brown hare, wildfowl and wading birds, swallows, sky larks and invertebrates.

Ecological richness is not limited to only designated sites but is present throughout the district. For example, the North Somerset moors, although consisting mainly of improved grazing marsh on clay and peat soils, are of great ecological value due to the vast network of ditches and rhynes which contain a variety of aquatic life from plants to invertebrates, mammals and molluscs.



Hazel dormice



Lesser horseshoe bats



Great crested newt

¹ The Severn Estuary European Marine Site (SPA/SAC/Ramsar); The Mendip Limestone Grasslands (SAC); The Avon Gorge Woodlands (SAC) and North Somerset and Mendip Bats (SAC).

2.0 WHAT IS GREEN INFRASTRUCTURE AND WHY DO WE NEED A GREEN INFRASTRUCTURE STRATEGY?

2.1 Definition of GI



Image: from *Building with Nature*

Green infrastructure is a **strategically planned network of natural and semi-natural areas** with other environmental features designed and managed to deliver a wide range of ecosystem services such as water purification, air quality, space for recreation and climate mitigation and adaptation.

This network of green (land) and blue (water) spaces can improve environmental conditions and therefore citizens' health and quality of life. It also supports a green economy, creates job opportunities and enhances biodiversity².

Many environmental features make up green infrastructure, but they are underpinned by two fundamental concepts which are outlined in Table 1 below.

Table 1 - Explanation of the two components that enable green infrastructure

Concept	Definition
Natural capital	The world's stocks of natural assets which include geology, soil, air, water and all living things.
Ecosystem services	Natural capital delivers a wide range of services, often called ecosystem services, which make human life possible and include production of food and water, regulation of floods, and non-material benefits such as recreational and spiritual benefits.

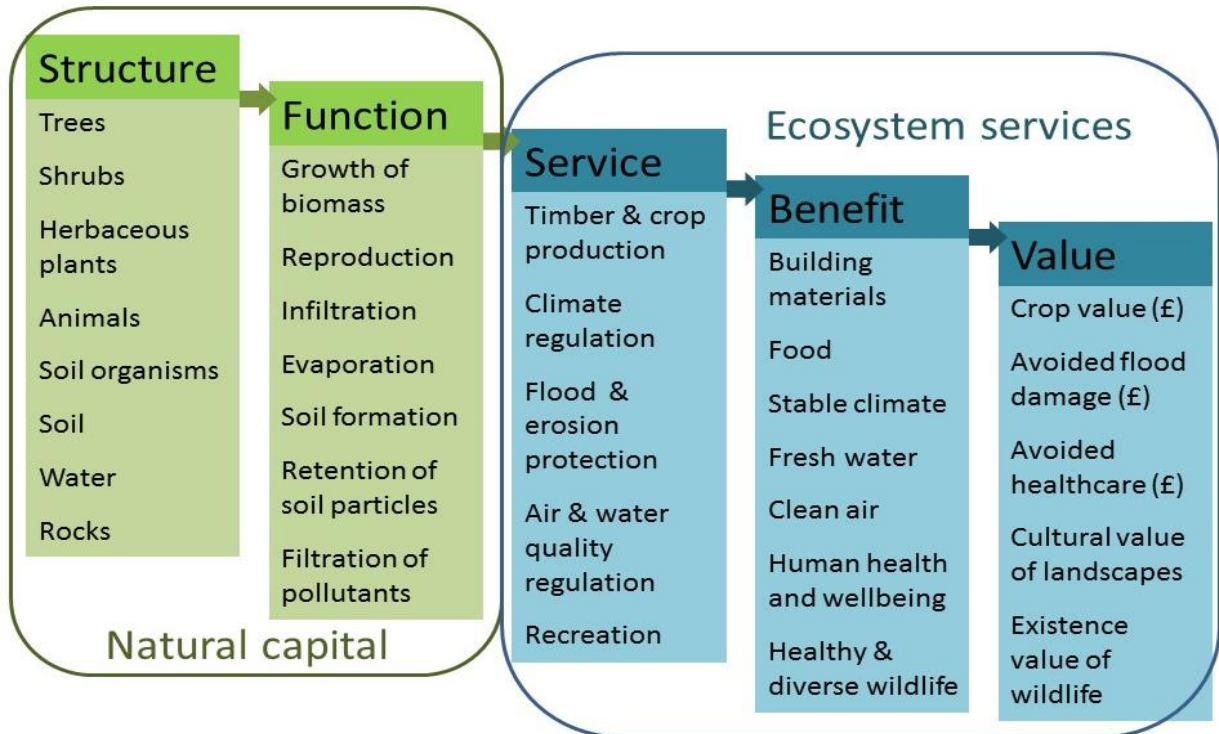
The two concepts in Table 1 can be considered as part of a 'cascade' model that links five partially overlapping concepts:

- the physical components of the ecosystem (structure), such as trees or bees,
- the functioning of and interaction between those components (process or function), such as photosynthesis,
- the delivery of a service to people, such as carbon storage or pollination,
- the resulting contribution to human welfare from the ecosystem (benefit),

² Source: http://ec.europa.eu/environment/nature/ecosystems/index_en.htm

- the value of the benefit, in monetary or non-monetary terms.

Figure 2 - The ecosystem service cascade model³. It is important to see how the concept of natural capital with its focus on stocks (structure and function) has been conceptually linked to flows (service, benefit, and value) of ecosystem services.



2.2 Why do we need a Green Infrastructure Strategy?

As discussed in Section 2.3 below, GI provides a range of social, environmental, and economic benefits (ecosystem services). These ecosystem services underpin human existence and are essential in achieving national and local priorities including improving people’s health and wellbeing; providing a healthy, biodiverse, and resilient natural environment, that helps mitigate the impacts of climate change; and in enabling economic growth.

This GI strategy provides the framework for protecting and enhancing GI within North Somerset (in order to ensure that the multiple benefits provided by GI are protected and enhanced, both now and into the future), enabling a coherent approach to policy and development management, and sustainable land management.

Green Infrastructure linked across scales, outlined below, creates ecological networks and initiates new relationships between urban and rural areas by building connectivity and resilience, reducing fragmentation and severance.

- **At the regional scale** Green Infrastructure creates a connected network of green spaces which respond sensitively to landscape character and conserve natural

³M.B. Potschin, R.H. Haines-Young Ecosystem services: exploring a geographical perspective Prog. Phys. Geogr., 35 (5) (2011), pp. 575-594

ecosystem values and functions. It provides vital services like clean water, soil for agriculture, and breathable air.

- **At the local scale** it creates green space between and around built areas. It connects communities with nature through Public Rights of Way and retains the important scenic and cultural landscapes that make a community unique.
- **In built areas** it connects public spaces like parks, streets and waterfront with surrounding landscapes. It also includes the tree canopy that keeps cities cooler in summer, adds natural beauty, helps clean the air, and reduces storm water run-off.

By protecting, reconnecting and enhancing green infrastructure, we can help ensure that a network of healthy ecosystems and semi-natural areas is managed as a coherent, multifunctional resource. It will also help ensure that ecosystems keep providing and supporting biodiversity and deliver their many vital services such as clean air and water, flood prevention, crop pollination, carbon storage, and improved health and well-being.

Simply put, the protection, enhancement and provision of GI should ensure that green spaces are bigger, better and more joined up – in accordance with the Lawton Review⁴.

2.3 Ecosystem Services (benefits)

GI provides both an approach and delivery mechanism to secure and maximise multiple benefits through a multi-functional connected network of green space and features.

As shown in Figure 2 above, the world's natural capital (natural environment) provides us with a range of ecosystem services or benefits. Ecosystems and the services they deliver underpin our very existence and wellbeing. We depend on them to produce our food and timber, regulate water supplies and climate, and breakdown waste products. Contact with nature gives pleasure, provides space for recreation and is known to have a positive impact on long-term health and happiness.

No longer are green spaces valued for a single use e.g. parks providing space for recreation, or woodland for providing timber. Contrary to single-purpose, traditional grey infrastructure (e.g. structures such as dams, seawalls, roads, pipes or water treatment plants), green infrastructure can perform a variety of vital and beneficial functions, often at the same time and at a fraction of the cost. For example, using nature based solutions such as tree planting, rain gardens and SUDs to attenuate flooding provides savings on the cost of hard infrastructure solutions as well as providing multiple benefits such as providing wildlife habitat and biodiversity, reducing soil erosion, reducing air pooling, cooling urban temperatures and providing space for informal recreation or connecting with nature.

The West of England Joint Green Infrastructure Strategy (JGIS) recognises that GI provides a wide range of evidenced economic, social and environmental benefits including:

⁴<https://webarchive.nationalarchives.gov.uk/20130402170324/http://archive.defra.gov.uk/environment/biodiversity/documents/201009space-for-nature.pdf>

- Supporting resilient ecosystems and biodiversity.
- Mitigating and adapting the natural and built environment to climate change.
- Conserving and enhancing a legible network of physical green spaces.
- Reducing and managing flood risks and drought.
- Improving mental and physical health, and the cohesion of local communities.
- Increasing the sustainability of food production
- Maintaining and enhancing cultural heritage, landscapes and natural resources.
- Promoting economic growth, employment and skills improvement.

2.3.1 Health and wellbeing benefits



Image: Poet's Walk, Clevedon⁶

People are closely connected with the natural environment. A survey by Natural England showed that in 2018 there were nearly 4 billion visits to the natural environment by adults living in England, while 89% of the respondents indicated that spending time outdoors is an important part of their life (Natural England MENE)⁵.

Natural England's recent People and Nature Survey⁷ has also revealed that during April-June 2020, almost nine in 10 adults in England reported that protection of the environment is important to them personally, and that being in nature makes them very happy. Nearly three quarters of adults were concerned about biodiversity loss in England. Four in 10 adults also reported spending more time in nature than before the coronavirus pandemic, with health and wellbeing being amongst the main reasons for getting outside.

There is increasing evidence demonstrating the benefits that the natural environment can provide to human health and wellbeing. Greenspace, such as parks, gardens, woodland, fields, Public Rights of Way and allotments as well as natural elements including green walls, roofs and incidental vegetation, are increasingly being recognised as an important asset for supporting health and wellbeing.

Improvements in health and wellbeing can also be linked to increased productivity and improved economic performance.

The government's 25 Year Environment Plan states that "Spending time in the natural environment – as a resident or a visitor – improves our mental health and feelings of

⁵https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/828552/Monitor_Engagement_Natural_Environment_2018_2019_v2.pdf

⁶ Photo credit: "[IMG6855](#)" by [mattbuck4950](#) is licensed under [CC BY-SA 2.0](#)

⁷ <https://www.gov.uk/government/statistics/the-people-and-nature-survey-for-england-adult-data-y1q1-april-june-2020-experimental-statistics>

wellbeing. It can reduce stress, fatigue, anxiety and depression. It can help boost immune systems, encourage physical activity and may reduce the risk of chronic diseases such as asthma. It can combat loneliness and bind communities together.”

A new Public Health England report⁸ highlights that Improving access to quality green space has the potential to improve health outcomes for the whole population, in a number of ways:

- Promoting health behaviour e.g. encouraging physical activity and active travel;
- Improving social contacts and giving people a sense of familiarity and belonging;
- Supporting the development of skills and capabilities; and
- Mediating potential harms posed by the local environment e.g. air pollution, heat, noise and flood risk.

This is particularly true for disadvantaged communities, where the evidence suggests that people’s health and wellbeing is enhanced by living in a greener environment. This means that green space also can be an important tool in the ambition to increase healthy life expectancy and narrow the gap between the life chances of the richest and poorest in society.

The value of green infrastructure has been keenly recognised during the COVID 19 pandemic where access to green space has played a key role in people’s well-being; alongside a wider appreciation of nature.

2.3.2 Tackling the climate and nature emergency

Climate change represents an urgent and potentially irreversible threat to human societies and the planet. In recognition of this, the overwhelming majority of countries around the world adopted the Paris Agreement in December 2015, the central aim of which includes pursuing efforts to limit global temperature rise to 1.5°C. The **Intergovernmental Panel on Climate Change (IPCC) Global Warming Report (2018)** provides the scientific evidence that global warming in excess of 1.5C (The Earth has already warmed by more than 1°C) above pre-industrial levels will undermine life support systems for humanity. It found that limiting global warming to 1.5°C would require “rapid and far-reaching” transitions in land, energy, industry, buildings, transport, and cities. Global net human-caused emissions of carbon dioxide (CO₂) would need to fall by about 45 percent from 2010 levels by 2030, reaching ‘net zero’ around 2050.

These pressures continue to degrade ecosystems, affecting habitats and species and reducing the spatial and functional coherence of the landscape. Degraded ecosystems have lower biodiversity and are unable to offer the same ecosystem services (benefits) as healthy ecosystems⁹.

⁸ Public Health England Report - [Improving access to greenspace: a new review for 2020](#)

⁹ <https://www.eea.europa.eu/publications/spatial-analysis-of-green-infrastructure>



The State of Nature Report (Oct 2019) and The Global Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) Report (May 2019) show the degradation and deterioration of natural environments and ecosystems which all life depends, the loss of biodiversity and a knock-on impact on human existence. The pressures that have caused the loss of biodiversity over recent decades continue to have a negative effect.

The State of Nature 2019 report highlights agricultural management, climate change, hydrological change, urbanisation, pollution, woodland management and invasive non-native species as among the most significant of pressures acting upon terrestrial and freshwater wildlife.

Key findings from The State of Nature and IPBES reports include:

- **Nature across most of the globe has now been significantly altered by multiple human drivers, with the great majority of indicators of ecosystems and biodiversity showing rapid decline - 75% of the land surface is significantly altered, 66% of the ocean area is experiencing increasing cumulative impacts, and over 85% of wetlands (area) has been lost.**
- **The population of the world's fish, amphibians, reptiles, mammals and birds has fallen by 60%.**
- **41% of insect species are threatened with extinction – meaning food chains are under threat as never before, and the three-quarters of human food crops which need insect pollination are also precarious.**
- **41% of UK wildlife species are in decline and 15% are at risk of extinction.**
- **In Bristol the city's swifts and starling populations are virtually wiped out – with a 96% decline in numbers of these birds between 1994 and 2014.**

The UK government declared an environment and climate emergency in May 2019, putting climate and the environment at the centre of government policy. The government has since made a legally binding commitment to achieve net zero emissions by 2050¹⁰, and has committed to planting 30,000 hectares of trees annually by 2025, helping to form part of the green recovery from Covid-19 and support the transition to net zero. In September 2020, the Prime Minister signed the Leaders Pledge for Nature, committing to protect 30% of the UK's

¹⁰ <https://www.gov.uk/government/news/uk-becomes-first-major-economy-to-pass-net-zero-emissions-law>

land by 2030, to protect nature and boost biodiversity, as well as committing to prioritise a green recovery following the coronavirus pandemic.

North Somerset Council is taking the issues of climate and nature seriously and declared a climate emergency in February 2019 and a nature emergency in November 2020. This has resulted in a climate emergency strategy and action plan. Climate change impacts on North Somerset will be wetter warmer winters, drier summers with more frequent intense periods of rainfall, sea level rise, increased coastal erosion and subsequent loss of intertidal habitat. The ecological emergency noted specifically species extinction, loss of habitat and the connectivity of habitats, decline in pollinators which are crucial to food supply, and the loss of and decline in the quality of the soil. This GI strategy addresses these issues and demonstrates an expansion of concerns about nature that were being addressed through the 're-wilding' of council owned land through planting trees and allowing grass to grow longer, in specified areas (see Section 8.2.6).

Focus on pollinators



Pollinators are essential for biodiversity and our wider environment. They maintain the diversity of wildflowers and support healthy ecosystems, particularly by helping plants to produce fruits and seeds which birds and other animals rely on. They are not only of enormous value to crop production (and therefore vital to the UK economy) but are also valued and appreciated by the public and, as part of our natural world, contribute to our health and well-being.

In Britain around 70 crops are dependent on bees, the production being valued at over £430 million per year¹¹. They are also important to horticultural businesses, and to the public for fruit and vegetable production in allotments and gardens. However, these important insects are under threat from many pressures, including habitat loss from intensive farming, urbanisation, diseases, climate change, and pesticide use. Wildflower meadows are prime pollinator habitat, but in the UK we've lost 97% of them since the 1930s.



Road verges are a vital refuge for pollinators and other wildlife. When managed well, road verges, whether rural or urban and whether on major or minor roads, can sustain an astonishing amount of wildlife: more pollinators are found on well-managed verges than in the neighbouring countryside and nearly 45% of our total flora is found on verges¹².

Wildflower meadows and grasslands do not only provide biodiversity and habitat for insects and other wildlife, they also provide a range of other ecosystem services, such as carbon

¹¹ Status and Value of Pollinators and Pollination Services, A Report to DEFRA (July 2014)

http://randd.defra.gov.uk/Document.aspx?Document=12316_finalreportph0514.pdf

¹²

https://www.plantlife.org.uk/application/files/3315/7063/5411/Managing_grassland_road_verges_Singles.pdf

storage; soil erosion control; flood mitigation; and space for recreation and exercise, yielding physical and mental health benefits for visitors and residents, as well as potential economic gain.

3.0 VISION, AIMS AND OBJECTIVES

3.1 Vision

North Somerset Council's overall vision set out within their Corporate Plan (2020-2024) is for 'An open, fairer, greener North Somerset'.

The Council has three overarching priorities in order to achieve this vision:

- A thriving and sustainable place
- A council which empowers and cares about people
- An open and enabling organisation

The vision for green infrastructure for North Somerset reflects these broad aims.

By 2030 our green infrastructure will be: contributing to a carbon neutral community; biodiversity will have measurably increased; health and wellbeing will be improved.

3.2 Aims

The overall aim of the Strategy is to protect and enhance GI within North Somerset, in order to maximise the multiple benefits (ecosystem services) that the natural environment provides.

The Strategy also aims to raise awareness of the importance and multiple benefits of GI and set out actions that can be undertaken by the Council, residents, businesses and partners, to protect and enhance GI.

3.3 Objectives

The West of England (WoE) Joint Green Infrastructure Strategy (JGIS) sets out 8 nature-based outcomes that are sought as part of an integrated approach to GI in the West of England. These have formed the basis of the objectives for this strategy, with a number of additions¹³, in order to deliver the vision and aims.

¹³ With amendments to 'Build a resilient economy' to include a focus on natural resources and two additional objectives relating to engaging and empowering community groups; and supporting residents to improve the environmental performance of their gardens.

The overarching principles for the strategy delivery (see section 9.1 of this report) also adopt those set out within the WoE JGIS and include the overarching principle to incorporate education and communication across all activities.

The ten objectives are as follows:

- **Engage and empower the local community and local groups to be active partners in the delivery of the Action Plan:** Engaging with communities will help ensure that green infrastructure projects are resilient and delivered successfully.
- **Improved and better-connected ecological networks:** protect, enhance and expand coherent, thriving and resilient ecological networks that deliver net gains in biodiversity and ecosystem services, including the creation of bigger, better, more and joined-up woodland, grassland and wetland habitats to achieve the ambitions of the West of England Nature Recovery Network.
- **Greater resilience to climate change:** Provide natural solutions to build resilience against the impacts of climate change including use of well-designed Green Infrastructure to stabilise slopes and attenuate flood water, absorb carbon, increased use of trees to provide shade/cooling and a wide range of other benefits and reducing coastal erosion.
- **Sustainable water management:** Optimise and improve the use of Green Infrastructure to deliver an improved water environment by working with natural processes to help reduce flood risk, reduce stress on water resources, manage drought, improve water quality and improving connectivity to reduce the loss and improve the quality of aquatic habitats and wildlife.
- **Health and wellbeing for all:** Improve the network of active travel routes and accessibility to green spaces to support healthy lifestyles and mental wellbeing and provide more opportunities for people to connect with landscape and nature and addressing inequalities in provision. Deliver high quality GI that mediates potential harms posed by the local environment e.g. air pollution, heat, and noise.
- **Create and maintain sustainable places:** New development which maximises the multiple benefits of Green Infrastructure in delivering resilient, healthy and environmentally friendly places and a net gain in natural capital by investing in Green Infrastructure for the long term.
- **Create and maintain valued healthy landscape:** Design and deliver high quality Green Infrastructure that improves local sense of place and protects and enhances landscape character and the natural, cultural and heritage services that they provide.
- **Support sustainable and local food and timber production:** Increase opportunities for local food and timber production, able to support the needs of local markets, in urban and rural areas and increase food sovereignty by, for example, protecting the best and most versatile agricultural land and enhancing our pollinator network.
- **Build a resilient economy:** Build an economy that uses natural resources efficiently, has lower environmental impact and contributes positively to well-being.
- **Support residents in improving the environmental performance of gardens:** Gardens will provide health and wellbeing benefits, improved biodiversity and flood resilience.

4.0 UNDERSTANDING THE VALUE OF GREEN INFRASTRUCTURE

4.1 Overview

The ecosystem services/benefits that the natural environment provides and are essential to our survival and health are now widely understood and evidenced. However, the management and/or provision of GI and green space is often seen as a liability, rather than an asset, and the full extent of the benefits are often unrealised. However, Natural capital accounting methodology and tools have now evolved to support decision makers and local government to understand the true value of their green estate.

This section provides an overview of natural capital accounting and highlights recent reports that have utilised it to demonstrate the benefits of GI in financial terms.

4.2 Natural Capital Accounting

Biodiversity is an essential component of natural capital and an indicator of their condition and resilience. Biodiversity itself provides benefits directly to people. At the heart of a natural capital approach is the understanding that nature underpins human health, wealth, culture, identity and happiness, and that the ways in which it does so can be complex and little understood¹⁴.

Valuing open space and GI using a natural capital approach puts a financial value on the often-hidden ecosystem services these natural assets provide e.g. recreation, mental health, physical health, carbon sequestration, temperature regulation, food (to name a few). It helps enable decision-makers to understand the contribution that open space and GI make to an area, or determine whether an intervention is justified, or determine priorities.

Defra's report 'Enabling a Natural Capital Approach' (ENCA) supports better environmental decision making through a better understanding of the value and evidence on natural capital and nature-based solutions. It is intended to help policy makers, businesses, landowners and public sector organisations make better planning decisions in order to protect and to boost natural capital. As such, ENCA will support more consistent valuation, although it is recognised that there are gaps in the evidence base, and that more work is needed to develop valuation evidence.

The development of a WoE Natural Capital Account has emerged as a strategic project from the preparation of the WoE Joint Green Infrastructure Strategy (JGIS) 2020-2030. NSC will be assessing options to develop a North Somerset Natural Capital Account/Strategy.

Some examples of recent reports that highlight the financial value of parks and green spaces are provided below.

¹⁴ <https://naturalcapitalcoalition.org/natural-capital-2/>

Making Parks Count (The Parks Alliance (TPA), 2020)

This report makes the business case for parks, why they matter, and why they are a ‘smart investment’. It illustrates how parks in England deliver over £6.6bn of health, climate change and environmental benefits each year including £2.2bn in avoided health costs alone and worth £140 per year for each urban resident. For every £1 spent on parks in England an estimated £7 in additional value for health and wellbeing and the environment is generated.

Some of the other key figures referenced in the report are:

- **Urban green spaces raise house prices by an average of £2,500;**
- **London’s parks alone help avoid an estimated £370m of mental health related costs each year;**
- **Parks are among the most species rich types of urban green spaces, and over 1,500 species of UK’s pollinators deliver an estimated £680m in value to the economy;**
- **The benefits of air pollutant removal by trees in public parks in England is estimated at £60m per year;**
- **The value of carbon sequestration by trees in public parks in England is estimates at £9m per year;**
- **Parks in England provide an urban cooling benefit of £4.8m per year.**

Revaluing Parks and Green Spaces Measuring their economic and wellbeing value to individuals (Fields in Trust (FIT), 2018)

This report provides a robust economic valuation of parks and green spaces in the UK as well as valuing improvements in health and wellbeing associated with their frequent use. This is the first research study on parks and green spaces to use welfare weighting methodology, allowing for more informed evidence-based policy decisions. The headline findings from this report are as follows:

The Total Economic Value to an individual is £30.24 per year (£2.52 per month), and includes benefits gained from using their local park or green space and non-use benefits such as the preservation of parks for future generations. The value of parks and green spaces is higher for individuals from lower socio-economic groups and also from black and minority ethnic backgrounds. The findings show that any loss of parks and green spaces will disproportionately impact disadvantaged and underrepresented communities, precisely those who value them the most.

The Wellbeing Value associated with the frequent use of local parks and green spaces is worth £34.2 billion per year to the entire UK adult population.

Parks and green spaces are estimated to save the NHS around £111 million per year based solely on a reduction in GP visits and excluding any additional savings from prescribing or referrals.

Some examples of specific natural capital tools are provided at Appendix 7.

5.0 PLANNING FOR GOOD QUALITY GREEN INFRASTRUCTURE

5.1 Overview

Although the multiple benefits of delivering GI and nature-based solutions are now widely evidenced and recognised across the planning, nature conservation and health sectors, poor quality GI can be delivered as part of new development.

The report *Living with beauty: Promoting health, wellbeing and sustainable growth* (2020), published by the Building Better, Building Beautiful Commission, recommends to government how to promote and increase the use of high-quality design for new build homes and neighbourhoods, of which nature/green space is a key part.

Recent and emerging quality standards for GI are coming forward, and these are summarised below.

5.2 Building with Nature



Building with Nature¹⁵ provides a framework of quality standards to ensure the design and delivery of high-quality green infrastructure, so that developments will also deliver for the natural world and healthy communities.

Drawing from evidence and good practice, high quality green infrastructure has been defined at each stage of the development process, from planning and design, through to long-term management and maintenance. The standards enable nature friendly features to be integrated throughout the development.

Developers can apply to have their scheme assessed, and planners can have their policy document accredited by Building with Nature. The standards¹⁶ are also free to use and can assist with the planning and development of new places and communities.

The framework of standards is divided into four themes:

- **Core** – provides a multifunctional network which responds to local context and policy, and is climate resilient and future proof;
- **Wellbeing** – is accessible, inclusive, can be enjoyed all year, is locally relevant, socially sustainable and distinctive;
- **Water** – manages water quantity and quality, maximising opportunities for amenity and biodiversity, is innovative, resilient, and locally distinctive;
- **Wildlife** – provides bigger, better, more joined up spaces that are locally relevant, nature rich and provide ecological networks.

¹⁵ <https://www.buildingwithnature.org.uk/about>

¹⁶ <https://www.buildingwithnature.org.uk/how-it-works>

NSC advocate these standards, and new major residential and commercial development will be expected to use these standards to guide the design of GI within layout plans. It is also acknowledged that new standards may also come forward as part of the National Framework of GI Standards Pilot Project (summarised below).

5.3 National Framework of GI Standards Project

Natural England's GI standards project will establish national standards for GI in England by 2022. North Somerset is one of 12 Natural England pilot projects. The NE pilots do not seek to duplicate existing standards such as Building with Nature, but rather to learn from best practice and reinforce key messages, such as that green infrastructure and natural capital needs to be considered and incorporated at the earliest stages of development and treated like other types of essential infrastructure.

It is understood that the outcome of the NE pilot project will help to inform North Somerset's new Local Plan and any subsequent reviews of the GI Strategy.

The aims of the Green Infrastructure Standards Project are to:

- Enable the delivery of more green infrastructure in accordance with best practice.
- Enhance the stewardship of existing GI to increase its benefits and outcomes for people, places and nature.
- Aid national recovery from the Covid-19 pandemic. Ensure good quality green infrastructure is available to all;
- Mainstream GI as essential infrastructure in place-making and in associated planning and land use decisions;
- Embed the framework within national planning policy and guidance.
- Support local authorities in assessing their GI against the Framework of GI standards.

The framework is currently in the draft phase, but will comprise:

- **Principles of good green infrastructure**, which cover why and how to enable green infrastructure in accordance with best practice
- **Standards for green infrastructure**. These are still under development but are likely to include updated Accessible Natural Greenspace Standards and Urban Greening Factors;
- **National baseline maps of green infrastructure** with reference to key population and socio-economic data. These will show where improvements to the extent and quality of green infrastructure are likely to have greatest benefit.
- **Guidance**
 - How to self-assess against the principles of good green infrastructure;
 - How to apply the Framework of GI Standards- Process maps for planners, developers, local communities, and greenspace managers;
 - How to design GI – an evidence-based GI design guide (subject to resources).

6.0 POLICY CONTEXT

6.1 Overview

A review of the most relevant national, regional and local policy and strategy is provided at Appendix 2. This section provides a list of the documents reviewed.

The GI strategy links to and supports a wide range of North Somerset Council policy priorities, strategies and plans (as highlighted in the diagram below, and Section 6.4 below), and will provide part of the evidence base to support the emerging Local Plan (2023- 2038).

It also aligns with and will help deliver the ambitions of regional strategies (including the West of England Joint Green Infrastructure Strategy and the Forest of Avon Plan: West of England Tree and Woodland Strategy) within North Somerset.

Figure 3 Links between NSC GI Strategy and Council policy priorities



6.2 National context

- National Planning Policy Framework (NPPF) (February 2019)
- Planning for the Future White Paper (August 2020)
- The Natural Environment White Paper (NEWP) The Natural Choice: securing the value of nature (2011)
- Biodiversity 2020: A strategy for England’s wildlife and ecosystem services (August 2011)
- A Green Future: Our 25 Year Plan to Improve the Environment (2018)

- England Tree Strategy (2021)
- Space for people: Targeting action for woodland access (May 2017)
- Natural England Accessible Natural Greenspace Standards
- Pollinator Strategy (2014)
- Living with beauty: promoting health, wellbeing and sustainable growth (2020)
- Buglife and B-lines
- National perspectives on the value of open spaces and physical activity to health and wellbeing.
- National Flood and Coastal Erosion Risk Management Strategy for England (2020)

6.3 Regional context

- The West of England Nature Partnership (WENP) and Nature Recovery Network (NRN)
- West of England Nature Partnership (WENP) Greenspace Classification
- West of England (WoE) Joint Green Infrastructure Strategy (JGIS) 2020-2030
- West of England Local Cycling and Walking Plan 2020-2036
- Joint Transport Plan 4 – West of England 2020-2036
- West of England Local Enterprise Partnership and Local Industrial Strategy
- Severn Estuary Partnership and Strategy for the Severn Estuary 2017
- Mendip Hills AONB Partnership and Management Plan 2019 - 2024
- The Forest of Avon Plan: West of England Tree and Woodland Strategy
- The Bristol Avon Catchment Partnership (BACP) and Bristol Avon Catchment Plan 2016.
- Severn River Basin Management Plan 2015
- South West River Basin Management Plan 2015
- Water Resources Management Plan 2019 – Bristol Water
- Severn Estuary Shoreline Management Plan - 2017
- North Devon and Somerset Shoreline Management Plan - 2010

6.4 Local context

- NSC Corporate Plan (2020 – 2024)
- Emerging Local Plan (2023-2038)
- Existing Local Plan
 - *NSC Core Strategy (January 2017)*
 - *NSC Development Management Policies – Sites and Policies Plan Part 1 (July 2016)*
 - *North Somerset Council Site Allocations Plan 2018*
 - *North Somerset and Mendip Bats Special Area of Conservation (SAC) Guidance on Development SPD (January 2018)*
 - *Development Contributions Supplementary Planning Document (SPD) (January 2016)*

- *Biodiversity and Trees SPD (December 2005)*
- North Somerset climate emergency strategy and action plan
- Rights of Way Improvement Plan (2007-2017)
- North Somerset’s Economic Plan (2017-2036)
- Placemaking Strategy for Weston-super-Mare
- NSC Strategic Flood Risk Assessment

6.5 Conclusions

The policy and strategy review highlights the vital importance of multi-functional green infrastructure in tackling the nature and climate emergency and in improving health and wellbeing, as well as being fundamental to the aims of national, regional and local strategies and policy, supporting diverse policy priorities.

A brief summary of some the key strengths, weaknesses, opportunities and challenges for GI in North Somerset is provided below (Table 2). These have emerged from the policy and strategy review (Appendix 2), and consultation (Appendix 1).

Table 2 - SWOC overview for GI in North Somerset

Strengths	Weaknesses
<ul style="list-style-type: none"> • A rich natural environment with a diversity of habitats supporting a variety of flora and fauna. • Varied landscape with a rich heritage • Collaborative working with partners including the West of England. • Good planning policy which can be strengthened further. • Many well-maintained open spaces which have achieved green flag awards • A good network of PROW provides many routes for walking, cycling and horse-riding. • Attractive tourist destination • Re-wilding campaign on NSC land 	<ul style="list-style-type: none"> • Some planning policy evidence bases are out of date, such as the evidence base for open space standards/provision. • Insufficient staff capacity to take advantage of grant funding opportunities.
Challenges	Opportunities
<ul style="list-style-type: none"> • Resources and funding e.g. to deliver projects and improvements, such as identifying sites with potential to be restored to priority habitats. • The need to reverse biodiversity loss and habitat loss/fragmentation. • The need to mitigate, and increase resilience to, climate change. • Management of existing designated sites (both statutory and non-statutory) to maintain and restore healthy and resilient habitats that continue to foster biodiversity. • The need to improve health and wellbeing and address deprivation/inequalities, especially in WsM. • Ensuring well designed, sustainable development in the right places. • Ensuring sustainable tourism. • Ensuring sustainable and green transport networks, which provide improved connectivity and access for other users of the network such as those with disabilities, and equestrians. • Improving water quality and connectivity. • Increased stress on water resources. • Loss of intertidal saltmarsh. • Incentivising and supporting sustainable land management. • Management of volunteers – capacity. • Practicalities of delivery and monitoring of green infrastructure provision on development sites. 	<ul style="list-style-type: none"> • Adopting and promoting good quality design for GI e.g. Building with Nature to ensure quality GI as part of new development • Improve understanding the value of green space through the use of natural capital accounting tools • Strengthening GI planning policy including enshrining GI and biodiversity net gain to ensure new development provides/enhances GI - there is a need for policy to include clearer expectations and standards, and earlier provision of and increased resourcing for green infrastructure. • Improving awareness of the nature and climate emergency and engaging with and empowering communities, businesses and landowners etc to take positive action. • Further partnership working • Post Covid-19 response– improve green transport opportunities and access to high quality green spaces. • Lots of opportunities to transform parks and amenity green spaces through establishment of wildflower meadows, priority habitats and rewilding. • Opportunities for agricultural land to contribute positively to GI through the emerging Environmental Land Management Scheme (ELMS) or offsetting opportunities e.g. carbon, nitrates/phosphates. • GI will play a key role in our economic recovery which is green, digital and people centred

7.0 SUMMARY OF CONSULTATION

7.1 Overview

Consultation was conducted in two stages as part of the green infrastructure strategy:

- Initial Consultation with the Natural Environment Team to inform the draft strategy.
- Consultation on the draft strategy to produce this final version of the strategy (this report).

7.2 Initial Consultation

The Natural Environment Team were consulted during July 2020 and the detail of the responses can be found in Appendix 1.

7.3 Consultation on the draft strategy

A range of consultation exercises were carried out over a period of eight weeks between February and April 2021. This included:

Consultation Method	Details
Public consultation	This included Econsult, a dedicated web page on the North Somerset Council website which received 444 responses.; E life emailed to 43,000 individuals; North Somerset Life delivered to all North Somerset residents; a range of press releases and 200 posters with QR code located in key locations.
Citizens Panel	A specific invitation to the panel hosted by North Somerset Council. Attended by 24 people.
Town and Parish Council Meetings	All Town and Parish Councils were invited to meet with representatives of the Natural Environment team from North Somerset Council.
Community Group Workshops	Two workshops hosted by Ethos Environmental Planning with representatives from 21 community groups attending.
Strategic Organisations	A range of organisations were invited to respond to the draft consulted through Ethos Environmental Planning with 10 organisations responding.

Below is a summary from this consultation categorised by the consultation method.

Public Consultation through eConsult

We received 444 responses to our public consultation.

61% of respondents thought that we had included all of the important local features within the strategy, with **39%** of respondents thought that we had missed some local features.

Those who thought we hadn't captured all the important local features were asked to comment about what was missing, and this included some types of open spaces, gardens, hedgerows and saltmarshes.

Overall, the majority of respondents agreed with the opportunities presented in the report.

80% of respondents supported the visions, aims and objectives with **20%** didn't support these.

Community Consultation

44% of respondents agreed with the vision for the GI strategy. **56%** of respondents agreed with the overarching principles but would amend the wording.

64% of respondents thought that we had covered all the key GI areas/topics within the objectives. **14%** of respondents thought that we hadn't covered all the key GI areas/topics within the objectives. **22%** of respondents didn't know if we had covered all the key GI areas/topics within the objectives.

Participants were asked to highlight the existing issues within the GI network, with open spaces and access routes being the theme which participants raised the most issues about. Overall, the five top issues voted by participants were lack of multi-user routes, lack of traffic free cycle routes, preservation and protection of existing landscape and heritage assets, lack of wet woodland habitat and poor connectivity of habitats.

Following this, participants were invited to identify opportunities to enhance GI in North Somerset, around each theme (water, open space and access, biodiversity, food growing, heritage and landscape). In total **17 actions** were identified, the majority being in relation to biodiversity.

Strategic Organisations

7 of **10** stakeholders supported the vision, aims and objectives. **2** stakeholders chose not to comment.

Stakeholders were asked if they thought all the key GI assets and datasets had been included within the baseline mapping. Overall, the majority of stakeholders thought we had captured everything, however, there were a few suggestions for additional datasets which were considered by Ethos.

Then the opportunities were asked to be reviewed with stakeholders agreeing with most of the opportunities except for grassland and access where stakeholders thought some opportunities had been missed.

Town and Parish Councils and Citizen Panel

Town and parish councils and the citizen panel provided detailed comments about the draft strategy.

8.0 EXISTING GI IN NORTH SOMERSET

8.1 Methodology

The approach taken for identifying and assessing strategic GI provision within North Somerset was as follows:

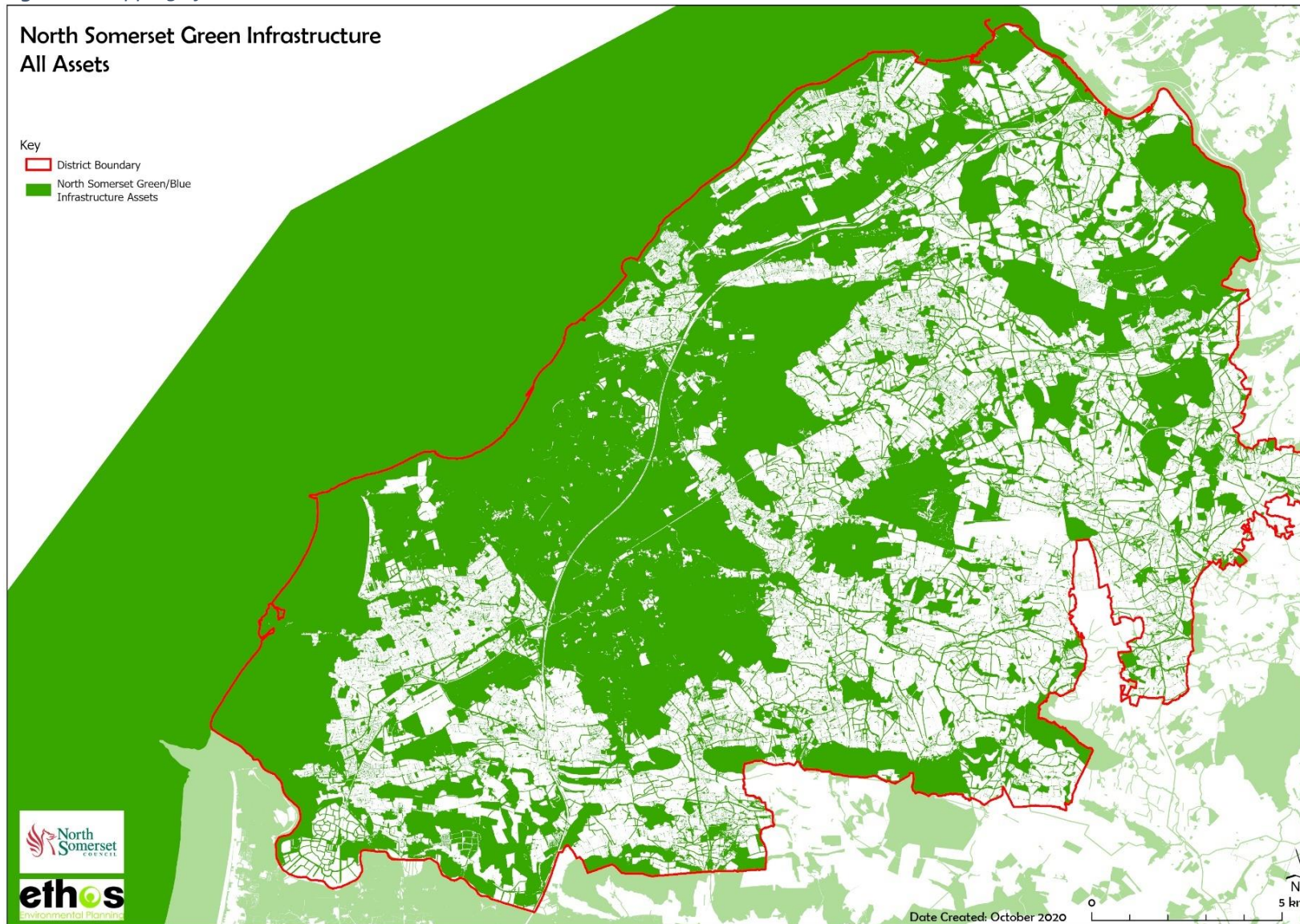
- **GIS Desktop Audit of provision:** Given that the vast majority of North Somerset is rural and therefore can be considered as green (or blue) infrastructure, the mapping of GI has focused on areas of high quality (e.g. statutory and non-statutory designated sites)/strategic GI and connectivity (rivers, major footpaths/cycleways, etc.). Maps have been produced using GIS datasets grouped into key themes, which link to the WoE JGIS outcomes (see Appendix 3).
- **Consultation:** Initial consultation with NSC's Natural Environment Team to inform the draft strategy (Appendix 1), followed by public and stakeholder consultation on the draft strategy between February – April 2021 (Section 7.)
- **Policy review and research:** to set the strategic context of the Strategy and identify how the strategy can contribute to wider aims and policy priorities, as well as reviewing relevant datasets and opportunities for improvement.
- **Identification of the key GI network (assets and corridors):** based on the GI datasets which were collated and mapped, set out in Appendix 3.
- **Opportunities for improvement (split into 3 areas - Council Land, Third Party Land and Planning and Development):**
 - Connectivity – opportunities for addressing gaps in the network for both habitats for biodiversity/wildlife and access for people (desktop analysis). Drawing on: WENP Nature Recovery Network (NRN), Natural England's Habitat Network Mapping and B-lines, a review of existing plans and strategies, and initial consultation with NSC.
 - Quality – Opportunities for quality improvements to enhance functionality of the GI network, based on existing quality information such as SSSI condition monitoring and Environment Agency WFD data.
 - Access – An assessment of access to publicly accessible open space through the application of a 300m buffer.

8.2 Strategic GI Map

Figure 4 below provides an overview of all strategic GI assets (combined from each of the GI themes) within North Somerset.

Appendix 3 provides a table of the GIS data used in the GI mapping by theme, as well as maps showing the GI broken down by theme (Water/Blue GI, Biodiversity and Habitats, Open Space and Access Routes, Food growing, Heritage and Landscape).

Figure 4 Mapping of overall GI network across North Somerset



8.3 Identification of GI Corridors

The strategic GI corridors within North Somerset have been identified in Figure 5 and Table 3 below, using the GI datasets set out in Appendix 3. Figure 6 illustrates how the GI corridors align with the Nature Recovery Network (NRN) strategic network and opportunities for improving connectivity across wetland, grassland and woodland. Figure 5 shows how the GI network within North Somerset links to the wider area.

The strategic GI corridors are based on multifunctional corridors which fulfil wildlife, access, flood plain and landscape functions. These corridors are indicative and are based on the underlying GI asset mapping. Opportunities for improving the strategic GI network have been identified in Section 8. Both the GI corridors and opportunities for improving GI are indicative, and where they fall on private land, discussion around opportunities and partnerships would be sought. No action would be taken without first consulting with the landowner.

These corridors specifically highlight important GI networks and are not therefore designed to preclude development. They do, however, highlight that in some locations green infrastructure and development will overlap and will therefore need to complement each other.

New development within the identified GI network and GI corridors should incorporate green infrastructure so that it protects and enhances the quality and connectivity of GI.

For example, new development would need to recognise the strategic GI network and set out how it will contribute to protecting and enhancing it; by providing multifunctional GI which respects and enhances the character and distinctiveness of the area. This could be done, for example, by retaining and enhancing habitats and linking habitats on and off-site (especially within the Nature Recovery Network), providing and/or improving the quality of accessible open space, connecting and improving sustainable access routes, providing SuDs which manage water quantity and quality and also provide amenity and biodiversity value where possible. The strategic GI identified in Figure 4 and Figure 5 (key assets and corridors) and opportunities for improving GI identified in Section 8 and Appendix 4 are indicative and provide the framework for protecting and enhancing GI. Further work is needed to identify specific projects, through more detailed analysis of the GI mapping and opportunities for improving habitat connectivity and management.

It should also be noted that there may be additional or more localised priorities, opportunities and aspirations for protecting, creating and enhancing GI outside of this strategic network e.g. Through local community initiatives, where funding might have been secured for pond creation/restoration or tree planting, or through new development that falls outside of the strategic GI network. Any new GI or enhancements should link with the strategic GI network where possible.

Table 3 - Strategic GI corridors in North Somerset

Strategic corridor number ¹⁷	Description	NRN grass-land	NRN Wood-land	NRN Wet-land	B-line	Strategic Access route	Flood zone
1.	Key Corridor following B-Line along the south and east of the district, the southern section falling within the Mendip Hills AONB, from Manor Woods Valley LNR in Bristol through to Mendip Limestone Grasslands SSSI via Barrow Tanks LWS and Burrington Combe SSSI. This corridor picks up a number of connectivity opportunities across all broad habitats as identified within the NRN.	✓	✓		✓		
1.	Woodland corridor following the North Somerset & Mendip Bats SAC, Cadbury Hill, a number of NRN woodland connectivity opportunities and Goblin Combe before finishing at the Ashton Plantation and Failand in the north.		✓				
2.	Corridor linking a number of LWS's starting with the Severn Estuary through Portbury Wharf, Gordano Valley and Walton Common before looping back through Clevedon Court, Twickenham Hill/Cadbury Camp and Failand Ridge and ending at the River Avon. This corridor contains a mixture of NRN woodland, wetland and grassland.	✓	✓	✓		✓	✓
3.	Floodplain grazing marsh corridor starting in the B-Line to the south, following the Strawberry Line north, and a number of traditional orchards in Sandford, passing through a NRN grassland connectivity opportunity and taking in the key moors before finishing in the orchards of Tickenham.	✓	✓	✓	✓	✓	✓
4.	Severn Estuary Corridor covering the coastal stretch of the district.			✓		✓	
5.	Congresbury Yeo Corridor following NRN's strategic wetland network from Severn Estuary to			✓		✓	

¹⁷ Indicated on Figure 5 below.

Strategic corridor number 17	Description	NRN grass-land	NRN Wood-land	NRN Wet-land	B-line	Strategic Access route	Flood zone
	Blagdon Lake SSSI, passing a number of traditional orchards. The corridor is primarily coastal floodplain grazing marsh west of Congresbury village and grassland and deciduous woodland east of the village. This corridor takes in a number of NRN wetland connectivity opportunities.						
6.	River Axe and Lox Yeo River Corridor within B-Line. Originating at Uphill LNR and finishing at Max Bog SSSI.	✓		✓	✓	✓	✓
7.	River Banwell Corridor linking Banwell Wood (which includes North Somerset & Mendip SAC) in the east to Severn Estuary. This follows the NRN's strategic wetland network.			✓			✓
8.	Corridor following Uphill Great Rhyne to the west via public open spaces and orchards in Locking Castle to the Rhyes at Tickenham, Nailsea and Kenn Moors SSSI.			✓			✓
9.	Predominantly wetland, following NRN's strategic wetland network linking Severn Estuary through floodplain grazing marsh through Nailsea and Tickenham Moors and a number of traditional orchards.			✓			✓
10.	Corridor connecting Tickenham, Nailsea and Kenn Moors to Bucklands Pool/Backwell Lake LNR via traditional orchards and grassland LWS.			✓		✓	✓
11.	River Avon Corridor following NRN strategic, woodland and following a B-Line. This important corridor contains the Avon Gorge SSSI and Leigh Woods LWS.	✓	✓	✓	✓	✓	✓
12.	Land Yeo river Corridor starting in the B-Line to the East at Ashton Vale and following the Land Yeo and Blind Yeo to the Severn; both of these rivers have a number of wetland connectivity opportunity spots.	✓	✓	✓	✓	✓	✓

Figure 5 Strategic GI Corridors in North Somerset

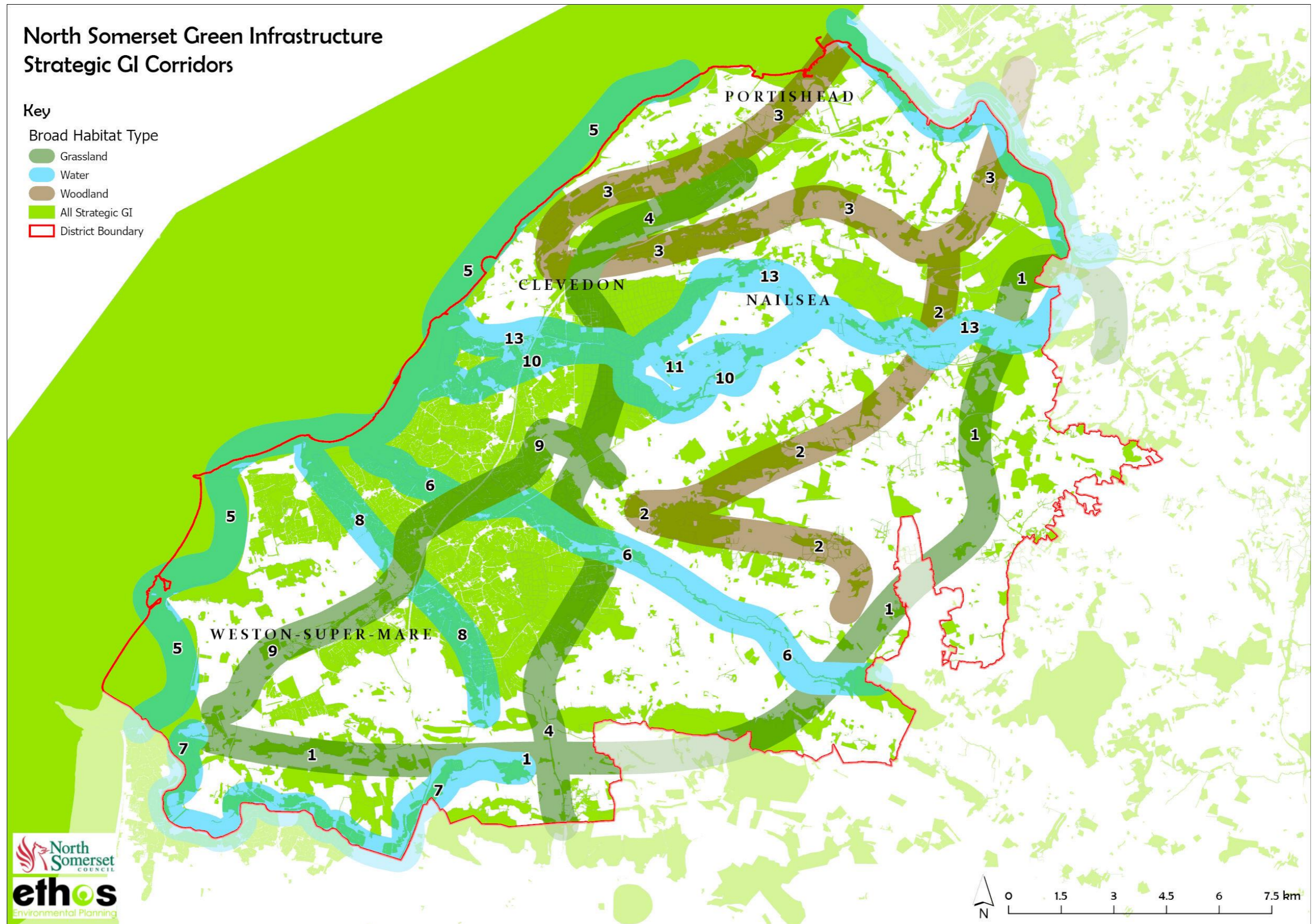


Figure 6 New map showing how GI corridors interact with Nature Recovery Networks

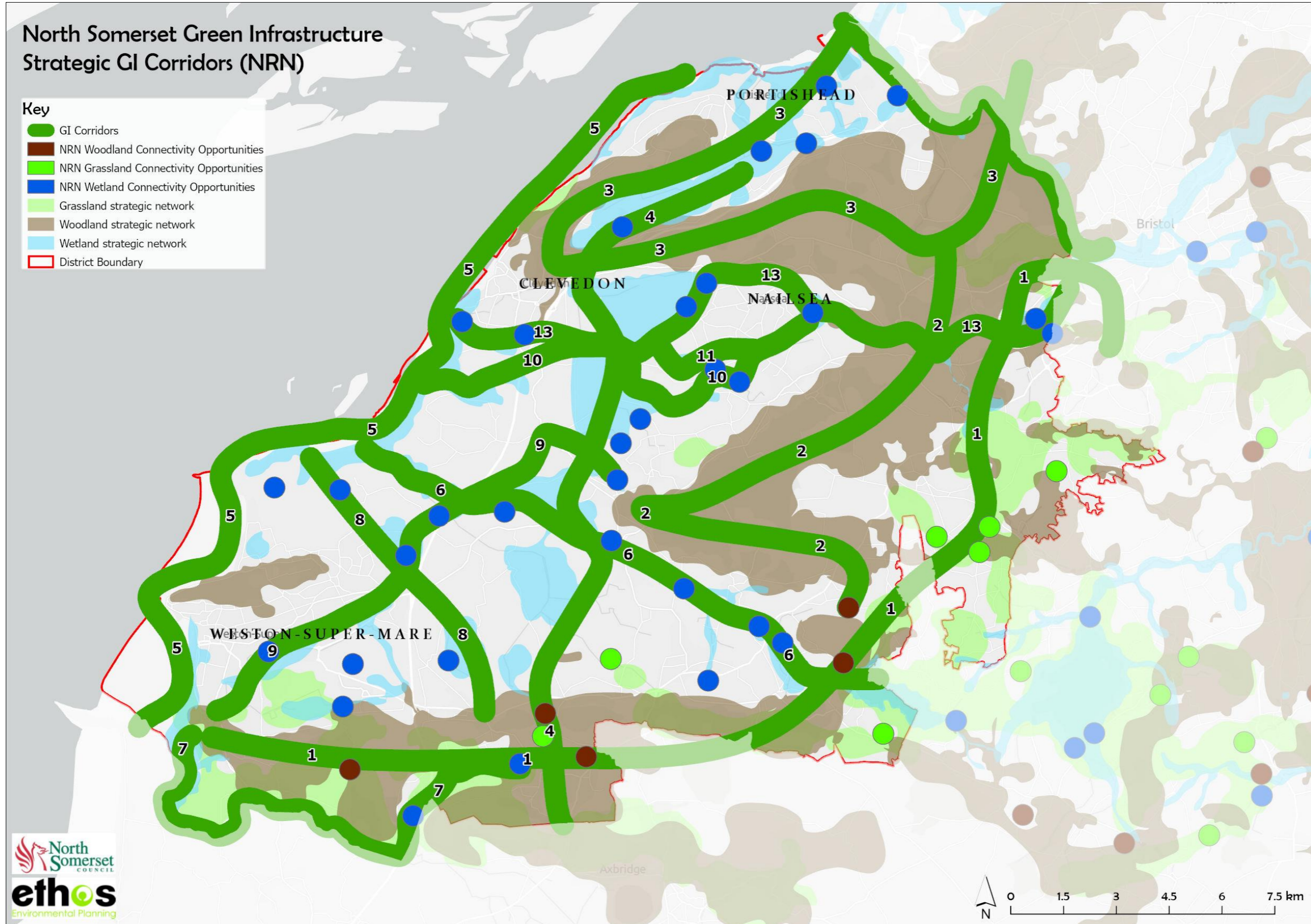
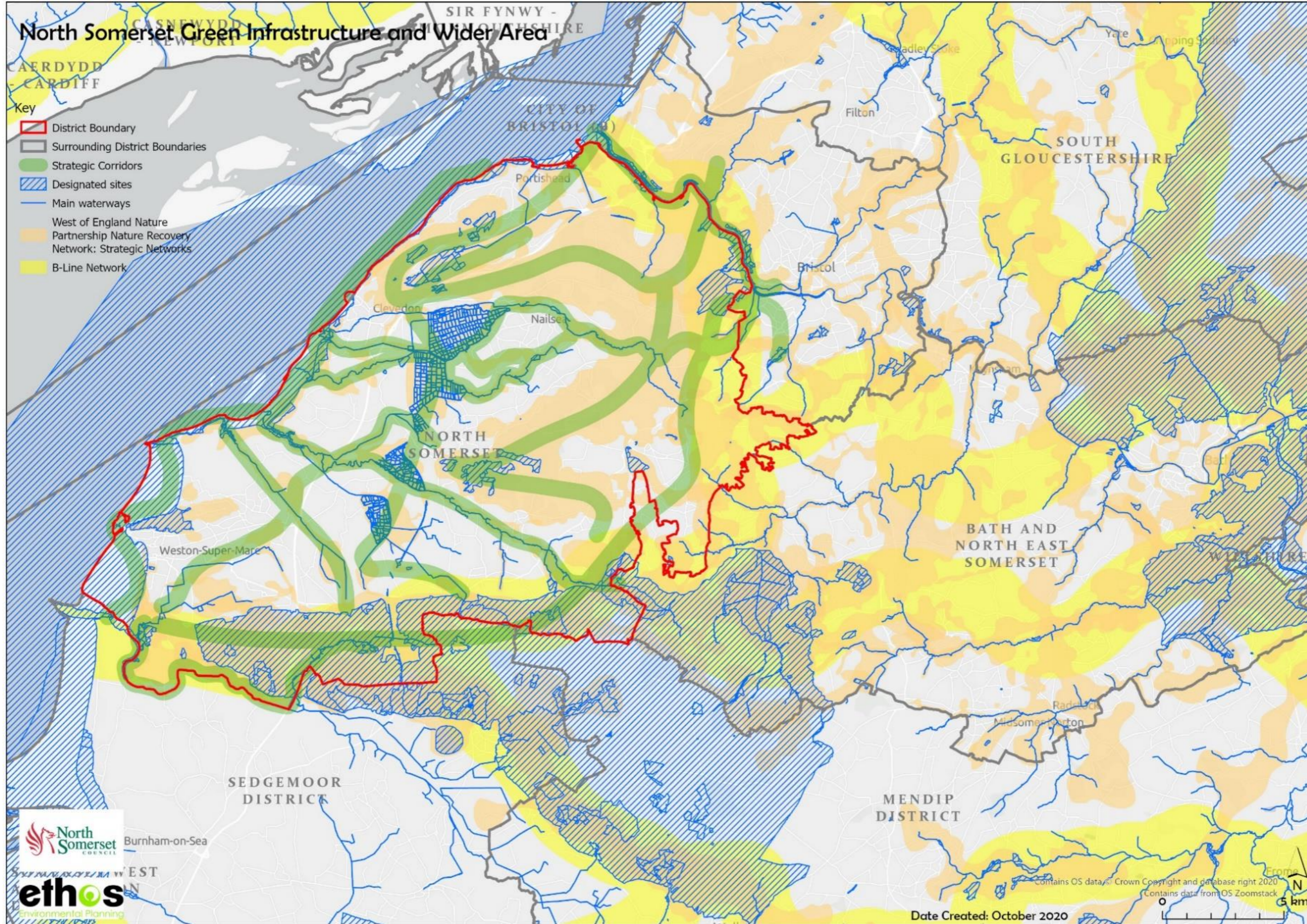


Figure 7- Strategic GI corridors and links with wider area/bordering Local Authorities



9.0 OPPORTUNITIES & RECOMMENDATIONS FOR IMPROVING GI

9.1 Overview

This section sets out broad opportunities and recommendations for improving the GI within North Somerset (both within and outside of the strategic GI network) and considers opportunities across 3 main areas – Council Land; Third Party Land; and Planning and Development, which includes planning policy recommendations.

GI is a nature-based solution

Opportunities to protect, enhance and create (improve) new GI can be called ‘nature-based solutions.’

‘Nature-based solutions’ is a term that encompasses GI and can be used to describe alternative and non-traditional approaches to environmental issues, like flooding, water scarcity, or soil erosion, by harnessing natural capital. The International Union for Conservation of Nature (IUCN) defines nature-based solutions as “actions to protect, sustainably manage, and restore natural or modified ecosystems, that address societal challenges effectively and adaptively, simultaneously providing human well-being and biodiversity benefits”.

GI and nature-based solutions have huge potential to help cities and urban areas become more resilient to climate change, and benefit people’s health and the economy.

Nature-based solutions are focused on seven key areas¹⁸:

- Urban and rural trees and woodland – found in parks, gardens, and along streets, and in the wider countryside, trees can help to regulate urban temperatures, reduce flood risk, clean the air, and provide wildlife habitat.
- Parks and green spaces – natural or planted green spaces are used for recreation and exercise, wellbeing as well as being rich habitats for wildlife.
- Public Rights of Way – Used for recreation and exercise, enable all to enjoy the natural environment and wildlife.
- Green buildings – walls and roofs covered with vegetation act like sound and heat insulation for buildings, and absorb rainwater, so reducing flood risk.
- Riverbank vegetation – plants along riverbanks trap soil and sediment, improving water quality and reducing flood damage by slowing the flow of water¹⁹.
- Wetland and bioswales – natural wetlands and man-made bioswales (or ‘rain gardens’) help to purify water and reduce flooding.

¹⁸ <https://earthwatch.org.uk/working-with-business/climate-proof-cities>

¹⁹ This is not necessarily true for the Internal Drainage Board area, which is a unique managed area where there is no gradient and the flow is already very slow.

- Lakes and ponds – natural or artificial waterbodies in cities can hold water for irrigation or drinking and support a wide range of wildlife.

Other solutions to improve the natural environment, such as the Nature Recovery Network, or re-wilding (see below) are also examples of nature-based solutions.

The Nature Recovery Network (NRN) as the basis for identifying opportunities for improvement

The NRN is a key policy commitment in the 25 Year Environment Plan. The NRN will benefit people and wildlife by increasing, improving and joining-up wildlife-rich places across England. It will create or restore 500,000 hectares of wildlife habitat outside protected sites, more effectively linking existing protected sites and landscapes, as well as urban green infrastructure, and providing opportunities to re-introduce species that have been lost from the countryside.

The forthcoming Environment Bill (2021) will place the 25 Year Environment Plan on statutory footing. A key outcome from this will include a requirement for all areas in England to establish Local Nature Recovery Strategies (LNRSs), as well as mandating biodiversity net gain²⁰ (also see section 8.4.5).

The West of England Nature Partnership (WENP) is working to develop a regional Nature Recovery Network (NRN) for the West of England²¹, aligning with shared principles developed across the South West (by the South West Local Nature Partnerships) to ensure coherence and strengthened networks across the wider region.

WENP's proposed NRN map, has been used as the basis for identifying key GI assets and corridors, and opportunities for increasing the connectivity of habitats (set out in Section 8.3 and Appendix 4).

Re-wilding

Rewilding is the large-scale restoration of ecosystems where nature can take care of itself. It seeks to reinstate natural processes and, where appropriate, missing species – allowing them to shape the landscape and the habitats within.

By protecting, restoring and regenerating species-rich mosaics of habitats, rewilding helps reverse biodiversity loss and bring back the abundance of wildlife, as well as helping to mitigate against climate change, improving health and wellbeing and providing opportunities for communities to diversify and create more resilient, nature-based economies.

The Charity Rewilding Britain wants to see a mosaic of species-rich habitats restored and connected across at least 30% of Britain's land and sea by 2030, through expanding the scale, quality *and* connectivity of our native habitats.

²⁰ Biodiversity Net Gain (BNG) is defined as 'a goal for a development project in which biodiversity losses are avoided, minimised, compensated and then exceeded by gains for biodiversity'.

²¹ <https://www.wenp.org.uk/nature-recovery-network/>

An example of a hugely successful re-wilding project is the Knepp Estate²² in West Sussex. Since 2001, the land, which was once intensively farmed, has been devoted to a pioneering rewilding project. Using grazing animals as the drivers of habitat creation, and with the restoration of dynamic, natural water courses, the project has seen extraordinary increases in wildlife. Rare species such as turtle doves, nightingales, peregrine falcons and purple emperor butterflies are now breeding on the land. In partnership with a number of conservation organisations and private landowners, Knepp has embarked on a project to re-establish a breeding population of White Storks – with the first chicks hatching in 2020.

Rewilding has also started to take place on North Somerset Council’s land following a 2019 motion to “rewild as much of its land as possible”.

9.2 Opportunities on Council Land

9.2.1 Management of road verges (both highway land and in residential areas)



Road verges are a vital refuge for pollinators and other wildlife. North Somerset Council has started a programme of rewilding including the planting of 50,000 trees and changing its mowing regime on 40 hectares of amenity grass to create more biodiverse areas of ‘tall grass’. These changes will sustain an astonishing amount of wildlife: more pollinators are found on well-managed verges than in the neighbouring countryside and nearly 45% of our total flora is found on verges²³. They also have the potential to form ‘pollinator highways’ linking many other habitats together.

²² <https://knepp.co.uk/home>

²³

https://www.plantlife.org.uk/application/files/3315/7063/5411/Managing_grassland_road_verges_Singles.pdf

Although Plantlife acknowledge that using seed mixes to create wildflower habitats have an important role to play, particularly in urban areas, the most effective way to tackle the real problem of declining local plant diversity and habitat degradation is through the way the land is managed²⁴.

The Council have introduced signage to identify where land is being managed for biodiversity and have been using the blue heart used as part of the BLUE campaign²⁵ (pictured above). The Council have also recognised the importance of consulting with local residents and this will continue with future rewilding activities.



Introducing **yellow rattle** (*Rhinanthus minor*), which is semi-parasitic to grasses, can reduce the quantity of grass growth by 60-80% – so reducing the frequency of cuts and the quantity of cuttings to remove – and also creates space for other wildflowers to grow, directly increasing diversity of the verge. Yellow rattle is best introduced onto moderate or low-fertility soils after reinstating favourable management. Once yellow rattle has established and is reducing grass growth, seeds of other wildflowers can be introduced if none have appeared naturally from the soil seed bank.

Managing road verges and open spaces for biodiversity and pollinators will require a balance between nature conservation, safety, management costs, existing contractual obligations, and public demand for tidiness.

***Recommendation 1:** NSC to consult on expanding rewilding management regimes (e.g. along roadside verges (highway and residential) in order to increase biodiversity. There could be potential for income through the land holding delivering biodiversity net gain (BNG) units, to offset biodiversity loss from new development (See Section 8.4.5 for further info on BNG).*

9.2.2 Management of open space

In public open space and recreation spaces there must be a careful balance between the needs of people and wildlife. However, research has suggested that people respond better to more 'biodiverse' greenspaces²⁶, meaning that the two objectives are not mutually exclusive. Simple actions such as the provision of wildflower strips or areas, the planting of shrubs and trees, and small semi-natural patches that are left to grow wild can provide space for nature

²⁴ Plantlife Report: Keeping the Wild in Wildflower <https://www.plantlife.org.uk/uk/our-work/campaigning-change/keeping-wild-wildflower>

²⁵ <https://bluecampaignhub.com/>

²⁶ Cameron, R.W.F., Brindley, P., Mears, M. et al. Where the wild things are! Do urban greenspaces with greater avian biodiversity promote more positive emotions in humans?. *Urban Ecosyst* 23, 301–317 (2020).

in public spaces without removing their amenity value. Community food growing projects, such as community orchards and edible beds within open spaces can also help generate community support, as well as benefit biodiversity.

As with management of road verges, any changes to existing management regimes or planting/wildflower meadow creation should involve the community. An important element of engagement will be to manage expectations around what ‘true’ wildflower meadows look like, but also the biodiversity benefits of this type of meadow compared to cornfield annuals (seed mixtures composed of annual flower species which can grow on fertile land).

Improvements in the provision, accessibility, quality and management of NSC parks and open spaces could be co-ordinated through the production of a Parks and Open Space Strategy.

***Recommendation 2:** In addition to rolling out the NSC ‘re-wilding’ project, the Council will consult further to identify additional opportunities to improve the biodiversity value of their parks and green spaces. In accordance with the UK governments commitment to protect 30% of the UK’s land by 2030 for nature and biodiversity, NSC will aim to manage at least 30% of its land holding for biodiversity. This could be co-ordinated through a Parks and Open Space Strategy.*

9.2.3 Pesticide usage

An important aspect of improving biodiversity and habitat for insects and pollinators is reducing pesticide usage²⁷. The 25 Year Environment Plan set out that we must be more sustainable with minimal use of pesticides but does not set a target or strategy to achieve it. There is growing evidence and awareness of the damage that pesticides (particularly neonicotinoids) can cause to our pollinators. Countries such as France have set ambitious targets for reducing their pesticide usage, and a movement that started there to help change people’s perception of weeds is growing, where botanists chalk pavements with the names of the wild plants.



Photo: Jill Mead (The Guardian Newspaper), From the article ‘Not just weeds’

²⁷ Pesticides are substances that are meant to control pests, including weeds (includes herbicides, insecticides, and fungicides).

***Recommendation 3:** The Council will trial reducing its pesticide usage and/or going pesticide free in some areas. This will be done alongside a public consultation and trial pavement chalking with local botanists, to raise awareness and gather resident’s views on the matter.*

9.2.4 Tree Planting

The 25 Year Environment Plan states that the provision of more and better-quality green infrastructure including urban and suburban trees – will make towns and cities attractive places to live and work and bring about key long-term improvements in people’s health. The governments manifesto sets an ambition to see all new streets lined with trees, and they wish to see more trees planted in urban and suburban areas overall.

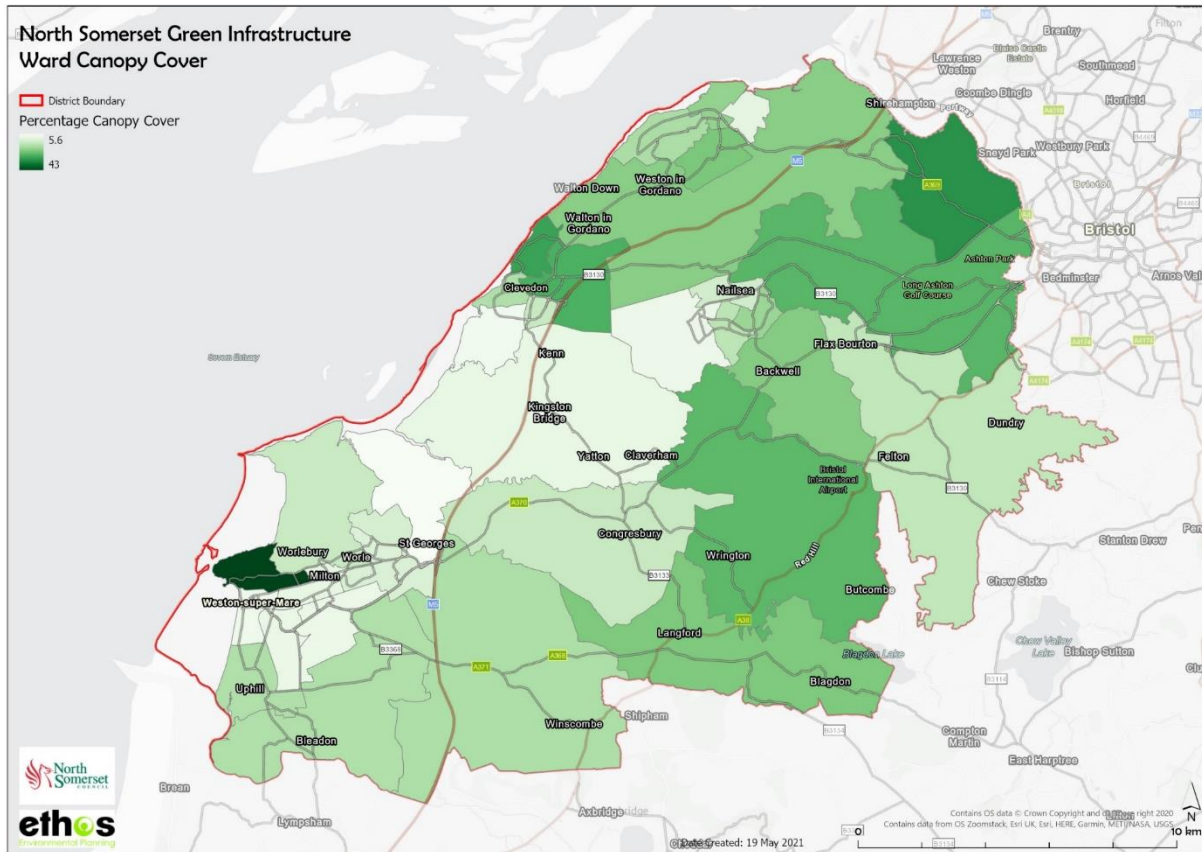
Trees provide services such as cooling the air and providing shade, improving our health and wellbeing and make more attractive places for us to live, travel and work. Evidence shows that these benefits can also lead to wider economic gains, for example reducing costs associated with flood damage and potential increases in the values of properties.

When deciding where to plant individual trees or woodlands, consideration needs to be given to the space available and proximity to buildings, the tree species and also the suitability of the land. Tree planting must not take place on archaeological sites, and important habitats such species rich grassland, heathland, wetland or peat bogs for example.

Residents and local wildlife groups etc. should be consulted in order to make sure tree planting takes place in suitable locations and so that tree planting projects have community support – communities can play a very positive role in informing and also delivering tree planting.

The map and table below show the % canopy cover by ward, based on the 2010 National Tree Map. The Urban Forestry and Woodland Advisory Committee (FWAC) Network recommends that a minimum standard for tree canopy cover is set for a local area, with evidence showing that 20% is a good aspiration for towns and cities and 15% for coastal settlements which generally have lower tree populations.

Wards with canopy cover below 20% (or 15% in coastal areas) could be targeted for tree planting, ensuring that the ‘right tree, right place’ principles are adhered to.



Ward	% Canopy Cover
Wick St Lawrence & St Georges	5.6
Clevedon Yeo	7.2
Weston-super-Mare Central	7.6
Nailsea West End	7.9
Weston-super-Mare Winterstoke	8.5
Weston-super-Mare South	8.7
Yatton	9.1
Weston-super-Mare Milton	9.3
Portishead East	10.0
Weston-super-Mare Mid Worle	11.4
Weston-super-Mare South Worle	11.8
Weston-super-Mare North Worle	12.5
Nailsea Yeo	13.2
Clevedon South	14.6
Weston-super-Mare Kewstoke	14.6
Congresbury & Puxton	14.8
Winford	15.5
Nailsea Youngwood	16.1
Clevedon West	17.3
Weston-super-Mare Uphill	17.4
Hutton & Locking	17.5
Banwell & Winscombe	17.8
Portishead West	17.9

Nailsea Golden Valley	20.0
Portishead North	20.7
Gordano Valley	21.9
Backwell	22.3
Blagdon & Churchill	22.8
Portishead South	23.2
Wrington	26.1
Long Ashton	26.5
Clevedon East	27.7
Clevedon Walton	29.8
Pill	32.3
Weston-super-Mare Hillside	42.6

Tiny Forests/Miyawaki Forests



Mimicking native woodland, these small (can be as small as a tennis court), fast-growing, and dense forests are ideal for urban areas where space is limited.

Despite their small size, they deliver significant tangible benefits, including flood mitigation, improved air quality, noise reduction near busy roads, havens for wildlife, and spaces for people to connect with nature. Tiny Forests provide an innovative, nature-based solution to the challenge

of the climate and biodiversity crisis.

The UK's first Tiny Forest is based on a forest management methodology developed in the 1970s by Japanese botanist Dr Akira Miyawaki and was planted by environmental charity Earthwatch Europe and Witney Town Council in Oxfordshire, in March 2020. The charity is seeking other visionary sponsors and landowners to help bring hundreds more Tiny Forests to the UK.

***Recommendation 4:** In addition to rolling out the NSC 're-wilding' project, consideration should be given to additional tree planting opportunities on Council land through consulting with local groups and residents. This will include street tree planting, allowing areas of natural regeneration, individual trees, new woodland, 'Tiny forests', and community orchards.*

9.2.5 General 'greening' opportunities

Highly urbanised environments where there is little in the way of existing trees, green verges or open space probably present the biggest challenge in terms of bringing biodiversity into these areas. Some examples of innovative ways of 'greening' these urban areas for the benefit of pollinators other wildlife and people are provided below.



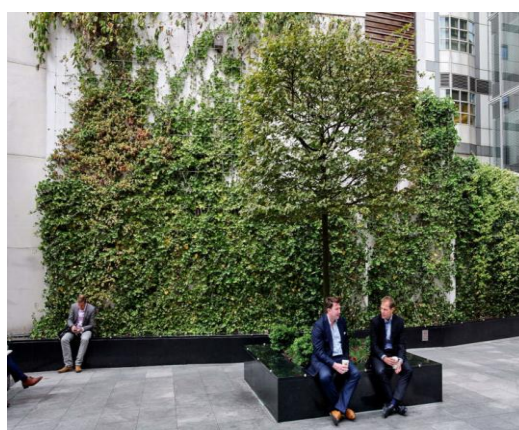
Parklet in Hammersmith and Fulham



Living bus shelter in Eindhoven



Green roof bus stop in Utrecht



Drapers Garden green wall in London

Parklets: Parklets are parking spaces that have been transformed into a community space e.g. with benches, seats, planters, etc. They challenge the idea that kerbside space is only for car storage. A residential parklet can be used both as a resting point for people, and a play area for children²⁸. They can also help green the city and provide food for pollinators, help attenuate rainwater, and provide shade/cool the air.

Green roofs and walls: Green roofs fall into two main categories: intensive and extensive. Extensive green roofs usually have a thin layer of soil medium and plants like succulents, grasses or other low maintenance, low growing vegetation. They require little to no maintenance and are usually not accessible. Intensive green roofs typically have a deeper substrate and shrubby vegetation or even trees. They are usually accessible and can often take the shape of a garden, which also means they require more maintenance than extensive roofs.

By intercepting precipitation and allowing infiltration into the soil media (as well as evaporation and transpiration from plants), green roofs reduce the impermeable surface of an area. They are most effective in small to medium rainfall events with low intensities and longer durations. Green roofs can also improve health and wellbeing by reducing air temperature and improving air quality in urban areas, and they can provide valuable habitat for wildlife including pollinators.

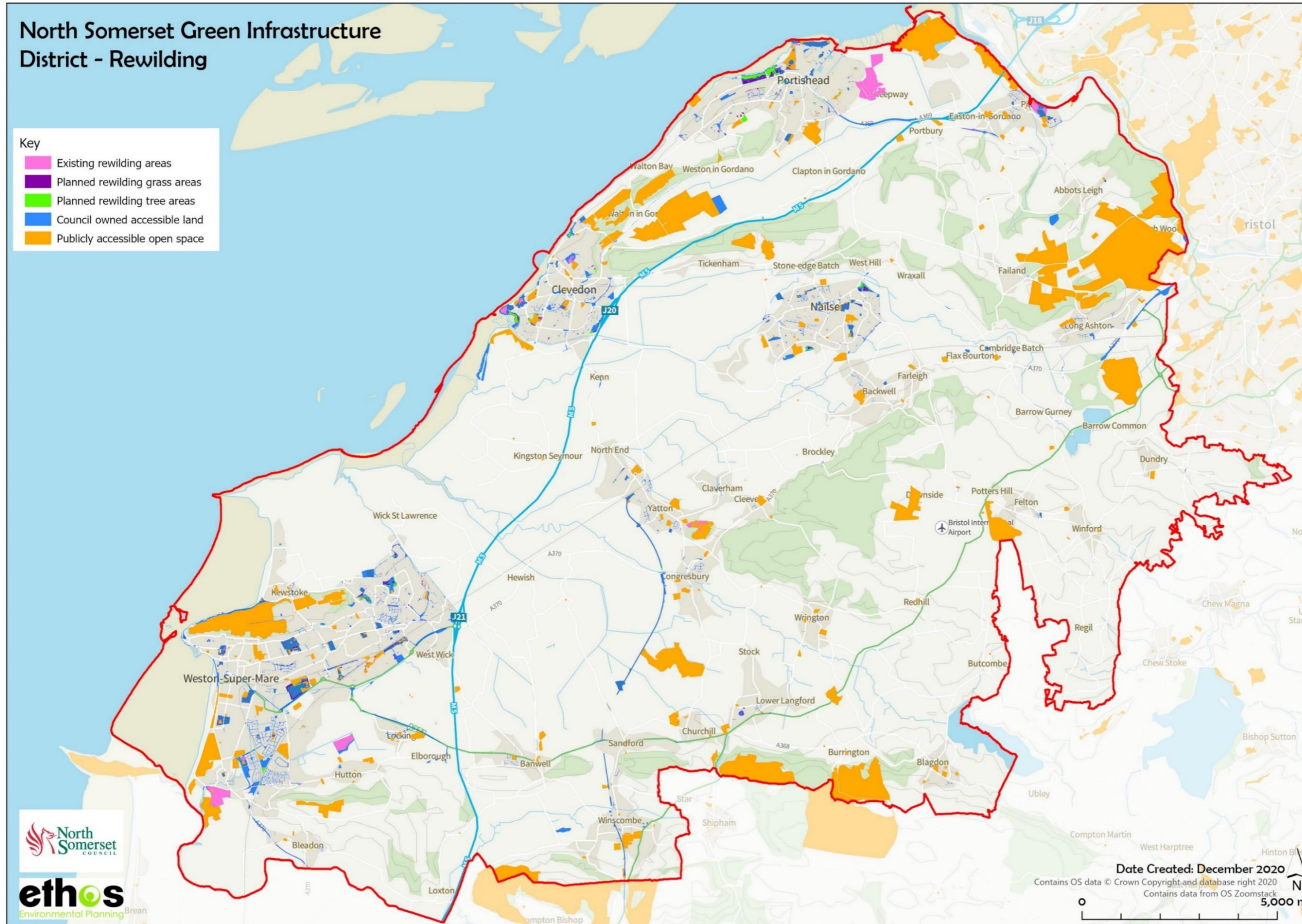
²⁸ <https://www.livingstreets.org.uk/about-us/our-work-in-action/campaigning-for-parklets>

Extensive green roofs can be created on any small flat roof, whether on a shed or a bus-stop. It is also becoming increasingly common for urban spaces to be ‘greened’ by creating living or ‘green’ walls which are covered with plants.

***Recommendation 5:** Within the main towns of Weston super Mare, Clevedon, Portishead and Nailsea, opportunities for ‘greening the grey’ will be considered and incorporated into relevant projects, plans and strategies, in order to improve health and wellbeing and help adapt to climate change. Planning policy within the Council’s new local plan should require green roofs, walls and tree planting in built up areas where the opportunities to provide new open space is limited.*

9.2.6 NSC 'Re-wilding' project

Figure 8 NSC existing and planned 're-wilding' areas



The council are in the process of converting 25% of 2,500,00 m² of amenity (short mown) grassland into woodland and managed tall grassland for biodiversity.

above provides an overview of the existing and planned ‘re-wilding’ areas, with more detailed maps provided at Appendix 5.

NSC are planting approximately 50,000 young trees across North Somerset. The first 5000 were planted in February 2020, and the remainder will be planted during the winter over 2020/21 and 2021/22.

Tall grass will be allowed to grow in some areas, providing shelter and food for insects, including pollinators. Most of this grass will be cut at the end of the flowering season, usually between August and October. The cuttings will be left on site, and the grass may be cut again in the spring, if needed, for biodiversity purposes. Some of the tall grass areas may be allowed to develop into scrub which provides food and nesting opportunities for birds. If left long enough, this will develop into woodland through natural succession.

Areas for retaining, improving and creating wildflower meadows will also be considered. Again, these areas will be cut at the end of the flowering season, and the cuttings removed to provide the conditions required for wildflowers to flourish (which can take a number of years in areas that are being restored or created). All new tall grass areas will be established by 2022.

Recommendation 6: Remaining ‘re-wilding’ areas will be rolled out following assessment of existing habitat, in order to calculate biodiversity net gain (BNG) units for habitat banking (see Section 8.4.5 on BNG).

9.2.7 Access to open space

Access to open space which includes council owned and non-council owned publicly accessible open space is considered in Section 9.3.3 below.

9.3 Third Party Land

9.3.1 Water/Blue GI

Wetland habitats

Wetland habitats (which include rivers, streams, floodplains, estuaries, lakes, ponds, ditches, wet grasslands, marshes, mud flats, peat bogs, fens, wet woodlands and reedbeds) are some of the most important habitats for people and wildlife, yet they are also some of the most threatened habitats in the world. In the UK we’ve lost 90% of our wetland habitats in the last

100 years and over 10% of our freshwater and wetland species are threatened with extinction²⁹.

Wetlands are one of the world's most biodiverse habitats, they absorb and store carbon, they are a lifeline for freshwater species, they provide habitat for migrating species such as wildfowl and waders, they are good for our health and wellbeing (e.g. through providing opportunities for recreation both within the water and on adjacent open spaces and public paths, connection with nature and the use of wetland plants in medicine), they can provide protection from flooding, as well as slowly releasing water when levels are low, they can help cool temperatures, they are essential for clean water, and they provide sustenance and livelihoods e.g. through fishing, aquaculture and rice production.

Wetland habitats such as peatland and saltmarsh are vitally important in mitigating climate change. The Severn Estuary represents the largest aggregation of salt marsh habitat in the south and southwest of the UK, covering about 1,400 hectares. On average, 1 hectare of saltmarsh sequesters and stores about 21kg of carbon dioxide per day³⁰.

Some of the key pressures on these habitats are: climate change; physical modification; pressures from rural land management and agriculture; pollution from wastewater discharged from water treatment works; pollution from rural areas, towns, cities and transport; changes to water levels and flows; invasive non-native species; stress due to water availability and habitat fragmentation.

Avon Wildlife Trust (AWT) are working to restore wetland habitat within the Gordano Valley, in order to encourage Lapwings back to live and breed. Lapwings on the UK's red list as a species of conservation concern, and across Avon, their numbers have fallen by 88% in the last 25 years. The project, funded by a grant from Biffa Award as part of the Landfill Communities Fund in 2018, is enabling AWT conservation staff and volunteers to restore 80 ha of wetland/peat moor on their Weston Moor and Clapton Moor nature reserves. The project will also benefit other plants and wildlife which flourish in wetland areas.

The government aims to ensure all waterbodies in England meet good ecological status by 2027. Any waterbody that does not meet good ecological status is classified as failing under the European Union's Water Framework Directive (WFD). In addition, the government's 25 Year Environment Plan sets out an ambition to develop a growing and resilient network of land, water and sea that is richer in plants and wildlife.

Only 16% of England's water bodies are at good ecological status, and water quality is a key challenge within North Somerset. Only one operational sub catchment (Kenn – source to Kenn Moor SSSI) has achieved 'good' ecological status (see Appendix 4).

The reasons for not achieving good water quality status include: high phosphate levels (from agricultural/sediment run off, urban diffuse pollution, and treated sewage discharges and sewage overflows); high sediment loading (from run-off from agricultural land); flooding

²⁹ https://consult.environment-agency.gov.uk/++preview++/environment-and-business/challenges-and-choices/user_uploads/biodiversity-challenge-rbmp-2021.pdf

³⁰ <https://www.realworldvisuals.com/rwv-projects/carbon-sequestration-in-severn-estuary>

(from run-off in both urban and rural areas); low river flows (associated with abstraction for water supply and poor upstream water retention and aquifer recharge); reduced natural habitat and wildlife (associated with physical modification of watercourses, poor riparian habitat, barriers preventing fish migration and an increase of invasive non-native species).

The WENP NRN has identified key wetland connectivity opportunities (see Appendix 4), which is based on Environment Agency (EA) data - Working with Natural Processes (WWNP): Floodplain Reconnection Potential. WWNP Floodplain Reconnection Potential is the Environment Agency's best estimate of locations where it may be possible to establish reconnection between a watercourse and its natural floodplain, especially during high flows.

Establishing the right trees and woodlands in the right places along rivers and within water catchments presents great opportunities to help regulate water flow to reduce flood risk, stabilise riverbanks, cool water with their shade and reduce pollutants that might otherwise drain into watercourses. They can also provide homes for wildlife and wildlife corridors. Where water courses pass close to trees and through existing woodland they can pick up woody debris. This can slow water flow, providing a natural form of flood management, helping sediment settle, and providing new habitats within the water course. Appendix 4 also provides Environment Agency data (WWNP Riparian Woodland Potential and WWNP Floodplain Woodland Planting Potential) that can be used to help inform locations for tree planting (see Appendix 4).

General 'greening' e.g. green roofs, tree planting, rain gardens etc, can slow run off and therefore reduce localised surface water flood risk, and also help improve water quality.

Bristol Avon Catchment Partnership (BACP) highlight that It is vital that the following three challenges are considered when aiming to improve the condition and connectivity of our water environment in all decision making and delivery:

- Improving the water quality of our river, streams, and waterways
- Improving the ecology, biodiversity and connectivity of our riparian habitats and in-stream habitats
- Improving the resilience of our catchment and delivering nature-based solutions that provide flood risk benefits and also help protect our water resources.

Irrigation and water resources reservoirs

As a result of changing climate, population and land use, pressures on water resources are likely to become more severe into the future. The consequences for surface water availability for agriculture are: Drier conditions will mean greater demand and less water available in summer, while winters may be wetter and characterised by heavy rainfall events. The storage of water in winter for use in summer therefore appears to be an increasingly important strategy and one that will be crucial in helping to strengthen national food security and protect designated sites. The Levels and Moors are sensitive to dry weather conditions and a lack of water may adversely impact on the aquatic based SSSIs and cause peat areas to dry out.

Irrigation and water resources reservoirs, if well designed, can provide both water resources and environmental benefits: Birds will quickly take advantage of the water and aquatic species such as newts and fish may also gradually colonise the reservoir but there are also specific design features that can further enhance the wildlife value of the reservoir.

Well planned reservoirs can capture water during heavy rainfall events and be stored for use in the summer months. Abstraction from watercourses or aquifers would require a license from the Environment Agency.

Marine Environment

The Severn Estuary borders the western boundary of North Somerset. It is one of the largest estuaries in Britain and has the second highest tidal range in the world. It is a diverse area with many natural and cultural features, as well as being a living and working environment for many.

It contains a variety of habitats including saltmarshes, mudflats and high tide roosts. It is an important nature conservation site because of its internationally important habitats and species, including over-wintering birds and migratory fish, and has a number of European and national designations (Special Protection Area, Ramsar, Special Area of Conservation and Site of Special Scientific Interest). Low-intensity grazing provides sustainable, high welfare food production as well as maintaining habitat diversity.

Air and/or water pollution are not regarded as a significant issue for the Severn Estuary designated site (s), due largely to its exceptionally high tidal range and constant turbidity. However, along with other European sites, is sensitive to other effects of development, including increased recreation, noise, lighting and loss/degradation of functionally linked land.

Saltmarshes play an important role in protecting coasts from erosion and provide natural flood management, avoiding or lessening the need for hard defences. Coastal squeeze (the loss of natural habitats or deterioration in their quality due to development or structures such as flood defences, combined with sea level rise) is a key issue for the Severn Estuary. Strategic GI Corridor 5 recognises the importance of the Severn Estuary GI and the impacts of coastal squeeze/need for managed retreat (and other pressures) should be addressed through the Local Plan.

Appendix 4 highlights some specific opportunities for improving water quality and reducing flood risk, drawing on various sources including: SSSI condition assessment³¹ (these also overlap with grassland opportunities), existing Bristol Avon Catchment Partnership (BACP) projects, WFD water quality, the Nature Recovery Network (NRN) and Environment Agency WWNP data.

³¹ It should be noted that the condition assessments for the majority of SSSIs are over 10 years old, however available data on habitat condition/quality is hard to find.

As part of the wilder waterways project, The Avon wildlife trust are working with Bristol Avon Rivers Trust (BART) to increase the natural capital of the Land Yeo river, which sits within the North Somerset Levels and Moors (NSLM). The NSLM is a hugely important coastal wetland habitat, which includes 1160ha of peatland.

***Recommendation 7:** NSC to continue to work with partners, developers and private landowners to identify and deliver projects to improve water quality and mitigate flooding. Planning policy to set out the requirements for SUDs as part of new developments.*

9.3.2 Biodiversity and Habitats

9.3.2.1 Woodland

The National Tree Map for North Somerset (2010) shows that tree crowns and canopies cover 19.1% of the district area (see Appendix 3).

In terms of woodland cover (defined as areas greater than 0.5 ha), North Somerset has approximately 4019 ha (10.7%), as recorded in the National Forest Inventory (NFI) and cited within the Forest of Avon Plan: West of England Tree and Woodland Strategy.

Woodlands cover around 13% of UK land, with conifers accounting for approximately 51% of the UKs woodland area – and much of this is commercial plantation of non-native tree species. Within the West of England, trees and woodlands are mainly native broadleaf species, with the proportion of coniferous woodland cover (13%) being significantly lower than in England (26%³²).

Defined as woodlands that date back to at least 1600, Ancient & Semi-Natural Woodlands (ASNW) and Planted Ancient Woodland Sites (PAWS) are nationally important because of their rich and complex ecology developed over hundreds of years and held in undisturbed soil, as well as their wider landscape and cultural value. ASNW, which have had woodland cover for over 400 years, are one of our rarest and most ecologically important habitats. PAWS, whilst replanted with non-native species, have ecologically rich soils with a diversity of seed stored through the centuries that, through careful management, can be restored.

North Somerset has the highest area of ASNW and PAWS in the region (1156 ha), followed by South Gloucestershire (930 ha), B&NES (642 ha) and Bristol (54 ha). The Woodland Trust Ancient Tree Inventory identifies 945 ancient, veteran and notable trees in North Somerset.

³² Forestry Commission, (2020), Forestry Statistics 2020 Chapter 1: Woodland Area and Planting

Ancient woodlands across the UK have been lost through conversion to commercial plantation and face continued threat from infrastructure and housing development. They are highly important for biodiversity, but only cover approx. 2.4% of UK land³³.

Woodlands are also under threat from invasive species, pests and diseases (including ash dieback), lack of management, overgrazing by deer, increasing levels of recreational disturbance and nitrogen pollution. Many woods have become fragmented, intersected by roads and development that degrade habitat and form barriers to wildlife movement.

Ash is by far the most common tree in North Somerset with an estimated 80,000 growing on North Somerset Council land and 130,000 growing on private property. The North Somerset Council iTree Eco 6 Study, (2018) found that North Somerset's trees absorb 249,000 m³ of water a year, reducing flooding at a value of £377,000 annually.

Appendix 4 sets out a number of specific opportunities for improving the connectivity and quality of woodland habitat within North Somerset, drawing on various sources including SSSI condition assessment, NRN data (which utilised the Natural England Habitat Natural Network mapping³⁴) and the strategic GI corridors developed as part of this strategy, as well as consideration of dormouse records.

As well as the more strategic landscape-scale connectivity opportunities highlighted in this strategy, the important role of hedgerows, copses, field and street trees, riparian corridors and scrub in providing connectivity and steppingstones across different habitats and at a range of scales is also recognised.

The Forest of Avon Plan has the vision of doubling the West of England's semi-natural tree and woodland cover by 2050 and sets out tree and woodland priorities by Landscape Character Area. Priorities for woodlands within North Somerset include:

- ensuring woodlands have a Forestry Commission management plan (or equivalent);
- ensuring any permitted development considers the conservation and planting of trees within the site;
- conserving and regenerating hedgerow boundaries and field trees;
- buffering ASNW and PAWS by establishing fringing areas for natural regeneration;
- ensuring public access routes are easy to use and follow;
- planting trees within open spaces.

9.3.2.2 Grassland

Grassland is the most predominant habitat type within the UK; however, the majority of this habitat is species poor (often consisting of just one or two species of grass), having been degraded through agricultural improvement e.g. ploughing, reseeding and the use of

³³ The State of Nature Report (2019)

³⁴ The Natural England Habitat Network dataset (based on the priority habitat inventory (PHI)) which identifies habitat groups and opportunities for habitat restoration and creation to reduce fragmentation.

herbicides and fertiliser. In the UK we have lost 97% of our wildflower meadows since the 1930's³⁵.

Although many of our best wildflower and grassland sites are protected e.g. in North Somerset there is the European designated Mendip Limestone Grassland SAC and grassland SSSIs, often the management of these sites is a challenge in the face of a lack of resources, and other pressures such as recreation and climate change. These protected sites are also fragmented.

Outside of statutory designated sites, grassland habitat has been identified within Local Wildlife Sites (LWS), although these are mainly in private ownership and therefore the condition of these sites is largely unknown. Within North Somerset there is a large area of grassland priority habitat³⁶, the Somerset levels and moors grazing marsh – although the majority of this grassland is agriculturally improved.

Appendix 4 sets out opportunities for improving the connectivity and quality of grassland habitat within North Somerset, drawing on various sources including SSSI condition assessment, NRN data (which utilised the Natural England Habitat Natural Network mapping³⁷) and the strategic GI corridors developed as part of this strategy.

Up-to-date data regarding habitat condition is difficult to find, and there is a need for updated/new condition assessments of designated sites (statutory and non-statutory) and priority habitats, in order to inform where and what management is needed to retain and restore these habitats.

The importance of mosaic habitats (an area comprised of multiple habitat types, which can be formed through disturbance e.g. open mosaic habitats, often found on brownfield sites) and ecotones (complex transition habitats e.g. scrub habitat between woodland and grassland) is recognised. These areas can support very high levels of biodiversity, as well as a high density of species.

***Recommendation 8:** NSC to work with partners, developers and private landowners to retain, restore and re-connect designated sites and priority habitats in order to help restore biodiversity and support functioning ecosystems.*

9.3.3 Access to Open Space

Open space, sport and recreation facilities are key elements of green infrastructure, and appropriate provision of such assets make a fundamental contribution to the health and

³⁵ State of Nature Report (2019)

³⁶ Natural England Priority Habitat Inventory

³⁷ The Natural England Habitat Network dataset (based on the priority habitat inventory (PHI)) which identifies habitat groups and opportunities for habitat restoration and creation to reduce fragmentation.

wellbeing of communities. Provision of sufficient open space, of appropriate quality and accessibility also plays an important role in the sustainability of communities.

A new Public Health England report³⁸ highlights that Improving access to quality green space has the potential to improve health outcomes for the whole population. However, this is particularly true for disadvantaged communities, who appear to accrue an even greater health benefit from living in a greener environment. The value of green infrastructure has also been keenly recognised during the COVID 19 pandemic where access to green space has played a key role in people’s well-being; alongside a wider appreciation of nature.

The West of England Nature Partnership (WENP) has developed a suite of maps³⁹ identifying accessibility to green space across the West of England, and best opportunities to target efforts to improve such access and reduce inequalities. The maps model catchment areas where residents are able to access open green space within a 300m walk (roughly translating to a 5 minute walk). These maps provide a helpful baseline from which to improve and help start more conversations around improving access to more and better quality green spaces for the benefit of everyone.

Figure 9 below shows access to publicly accessible open space across the study area (using open space data provided by NSC). A buffer of 300 metres has been applied to each of these spaces. The access maps also show Census 2011 Output Areas (OAs), which are data points (shown in blue) on the maps below. Each OA centroid is the lowest level of geography from the census which contains roughly 129 households. Using this point dataset helps to clearly show where the key gaps in access are (i.e. in the populated parts of the study area) when analysing large scale maps.

³⁸ Public Health England Report - [Improving access to greenspace: a new review for 2020](#)

³⁹ <https://awt.maps.arcgis.com/apps/webappviewer/index.html?id=cca6f19dbd644b598481baa68cd3ed2d>

Figure 10 also shows access to accessible woodlands (data provided by the Woodland Trust), against the Woodland Trust Woodland Access Standards. As can be seen, there is generally good access against the 20ha or larger woodlands within 4km, but poor access to 2ha or larger woodlands within 500m.

As can be seen, there is good access to open space across the study area. However, the open space mapping and evidence base that underpins the NSC open space standards and areas of shortfall (developed in 2009) is now dated.

The access analysis relates to the provision of open spaces and the distances required to reach them. However, it is noted that as a general principle, access routes (within and connecting open spaces and other facilities) should be designed to provide access for all wherever possible.

Recommendation 9: *It is recommended that a new open space assessment is undertaken in order to review existing open space (including play space) provision, and inform robust open space quantity, quality and access standards.*

Figure 9- Access to open space (300m buffer)

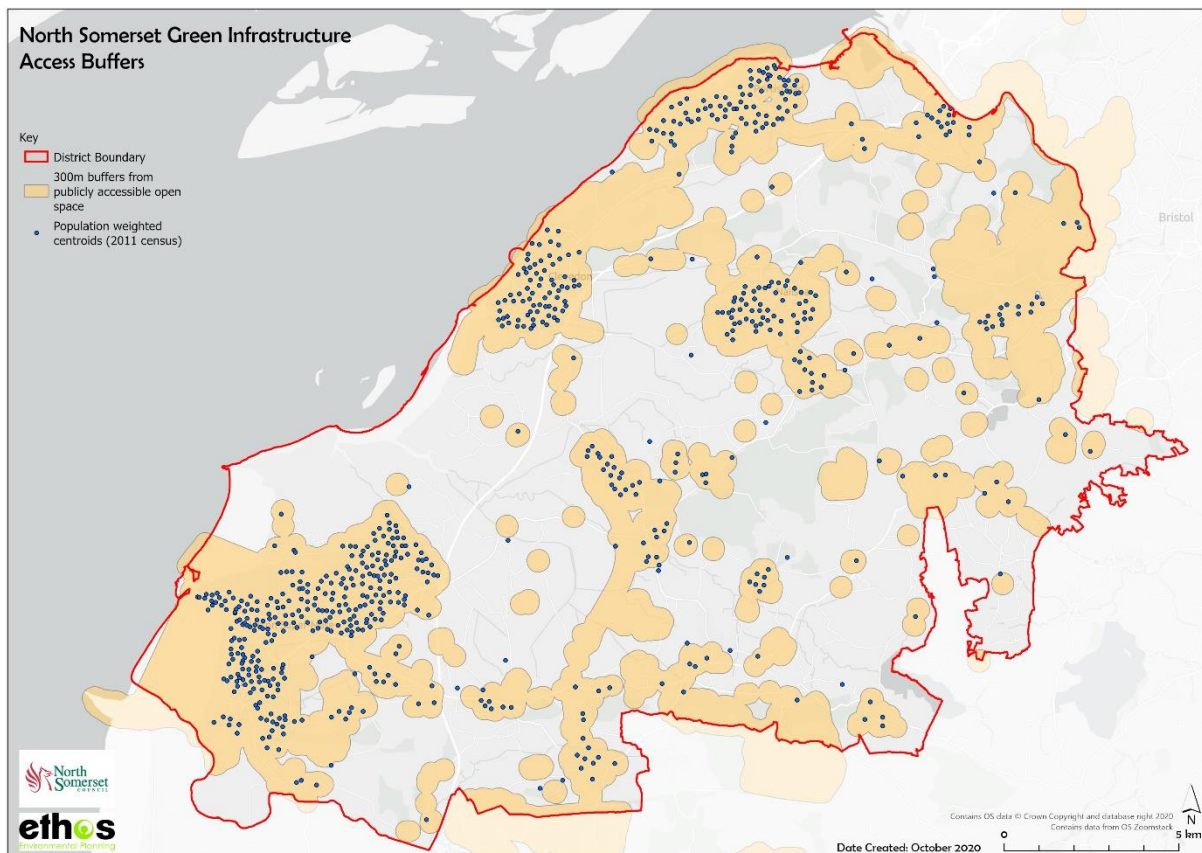
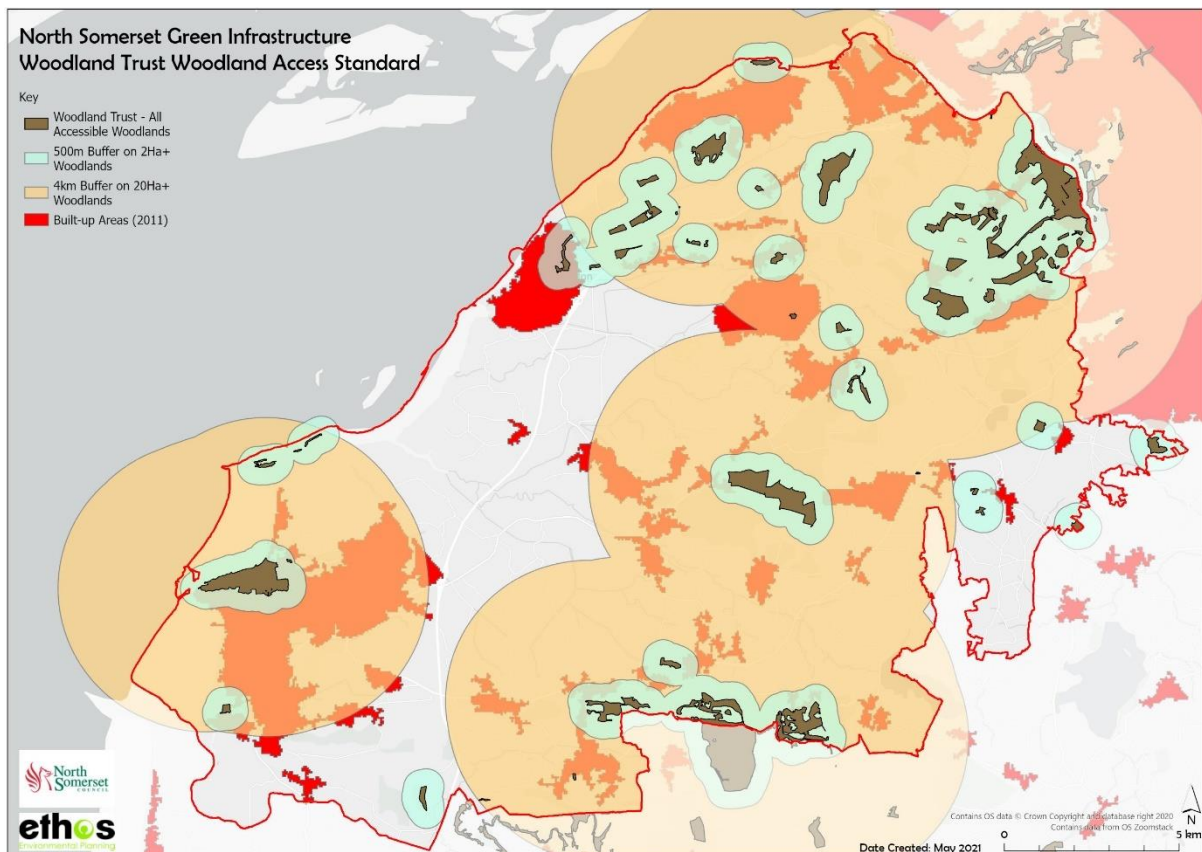


Figure 10 Access to accessible woodland (using Woodland Trust Access Standards)



9.3.4 PROW/Access Routes

GI is an important tool in helping achieve a cleaner, greener and more sustainable transport network through; reducing the carbon footprint of transport e.g. providing opportunities for walking and cycling; connecting places for both people and wildlife through the provision of 'green' routes; and improving health and wellbeing e.g. through reducing air pollution and encouraging active travel. The Covid-19 crisis has highlighted the vital importance of effective sustainable transport.

The Council are currently revising their Rights of Way Improvement Plan. The main deficiencies in the network are routes for cyclists and horses (See Appendix 2 - Policy Context, Section 4.4 for further information).

Appendix 4 sets out opportunities to improve key strategic access routes, identified through the policy and strategy review and consultation within NSC (Appendix 1).

9.3.5 Agricultural land and Food Growing

Agricultural land

Agricultural productivity, linked to the intensification of land management and the decline in farmland nature, is still increasing, and poses one of the most significant pressures on the terrestrial and freshwater environment (State of Nature Report, 2019), although with government funding many farmers have adopted wildlife-friendly farming. The Farming and Wildlife Advisory Group (FWAG)⁴⁰ provide support and advice to farmers to help them manage their land in a more sustainable way.

The Agricultural Land Classification assesses the quality of farmland to enable informed choices to be made about its future use within the planning system. There are five grades of agricultural land, with Grade 3 subdivided into 3a and 3b. The best and most versatile land is defined as Grades 1, 2 and 3a. Planning policies and decisions should take account of the economic and other benefits of the best and most versatile agricultural land (see Appendix 3 for map showing the best and most versatile agricultural land in North Somerset).

The emerging Agriculture Bill will be vitally important in improving the value of farmland for biodiversity and health and wellbeing. It will fundamentally change direct payments to farming (through the proposed Environmental Land Management Scheme - ELMS)⁴¹, where farmers will be rewarded for protecting and enhancing the environment i.e. protecting and enhancing natural capital and the resulting public goods/ecosystem services, with particular emphasis on soil health, biodiversity, increased flood resilience, water availability and public access (amongst other things).

With the introduction of ELMS, and other potential income opportunities for farmers and landowners e.g. through developers paying for biodiversity net gain units, or nitrate/phosphate offsetting, there is huge potential for regenerative agriculture (a conservation and rehabilitation approach to food and farming systems, focusing on soil regeneration, biodiversity and the water cycle) and agroecology (the application of ecological concepts and principals in farming) to become mainstream.

Agroforestry is an example of agroecology and means combining agriculture and trees. Planting trees on farms can give farmers healthier soil and higher yields (including through the trees providing fruits/nuts/timber), as well as creating homes for wildlife. It has already been rated as one of the most promising systems for the 'sustainable intensification' of

⁴⁰ <https://www.fwagsw.org.uk/>

⁴¹ The new payments system is called Environmental Land Management System (ELMS).

farming, meaning that farmers can produce more food while also reducing negative impacts on the environment. The Woodland Trust works with farmers to increase adoption of agroforestry practices.

Organic farming is also a form of agroecological farming. All organic farmers are required to meet a strict set of standards. These standards guarantee higher animal welfare, fewer pesticides and antibiotics and no GMOs. It also supports more jobs on farms, healthy soil and more wildlife. Individuals can support agroecological farming by engaging with their local farmers and growers, learning about their farming practices and joining a local veg box scheme, or buy organic.

North Somerset Council and Partners will aim to promote local food production and opportunities to support local food producers within communities, through raising awareness and promoting local farm shops, farmers markets and market gardens.

Allotments and community food growing

Allotments, community orchards and community gardens show similar benefits to parks and other open areas when it comes to the benefits they provide, and they also provide a unique social and cultural aspect of local food production and land ownership. Research has found that allotments are particularly good places for pollinators, providing a mix of fruit and vegetable flowers, plus overgrown corners full of native plants.

The provision of allotments and community food growing spaces should be assessed as part of an updated open space study. Additional opportunities for community orchard planting and/or food growing areas within parks and amenity green spaces could also be explored with the community.

Soil Health

Soil is an essential natural capital asset that provides important ecosystem services – for instance, as a growing medium for food, timber and other crops, as a store for carbon and water, as a reservoir of biodiversity and as a buffer against pollution.

Soil is the planet's second largest active store of carbon after the oceans. 80% of Carbon in terrestrial ecosystems is found in soil⁴². However, prolonged cultivation accelerates the decomposition of soil organic matter, resulting in the release of stored carbon in the soil, into the atmosphere. Therefore, sustainable soil management practices and land uses which reduce soil erosion, and therefore retain and improve carbon storage and capture can help tackle climate change, as well as the nature crisis. Research also shows that the restoration of plant diversity greatly increases carbon capture and storage rates.

The estimated annual loss of 2.2 million tonnes of topsoil as a result of erosion, costs the UK economy in excess of £1 billion a year through lost nutrients and a reduction in the agricultural productivity of the land⁴³. Along with the release of carbon into the atmosphere, nutrients also leach into watercourses, impacting water quality and causing eutrophication and algal

⁴² <https://www.nature.com/scitable/knowledge/library/soil-carbon-storage-84223790/>

⁴³ http://www.ukso.org/agri-pocs/wind_info_sheet.pdf

blooms which can result in Dead Zones, where aquatic life cannot survive because of low oxygen levels.

Agricultural land management practices that can deliver soil carbon benefits for greenhouse gas mitigation (as well as deliver greater benefits for agronomy and other ecosystem services) include⁴⁴:

- land use change to woodlands
- taking areas of arable land out of production in conservation orientated field margins,
- integrating grass or herbal leys into crop rotations without increasing overall ruminant populations
- liming of agricultural soils to maintain optimal pH and making use of cover crops.

Huge carbon stores under grasslands discovered



Greenhouse gas storage is a regulating ecosystem service that contributes to reducing the scale and future impacts of climate change (climate change mitigation).

A nationwide survey by ecologists has revealed that over 2 billion US tons of carbon is stored deep under the UK's grasslands, helping to curb climate change.

Published in the leading journal *Global Change Biology*⁴⁵, the study shows that decades of intensive grassland farming across the UK, involving high rates of fertilizer use and livestock grazing, have caused valuable soil carbon stocks to decline. They found 60% of the UK's total soil carbon stored in grasslands – which cover around a third of UK land surface – is between 30cm and 1 metre deep, and also that this deep carbon is sensitive to the way land has been farmed. The research is part of a five year project supported by DEFRA, aimed at managing UK grassland diversity for multiple ecosystem services, including carbon capture.

The findings suggest that by managing our grasslands in a less intensive way, soil carbon storage could be important to our future global carbon targets, as well as bringing benefits for biodiversity conservation.

Within North Somerset, cattle grazed pasture not only provides soil carbon benefits, but is an important foraging habitat for the local populations of rare lesser and greater horseshoe bats,

⁴⁴ <https://www.gov.uk/government/publications/natural-capital-committees-seventh-annual-report-government-response/the-governments-response-to-the-natural-capital-committees-state-of-natural-capital-report-2020>

⁴⁵ Legacy effects of grassland management on soil carbon to depth (February 2016)
<https://onlinelibrary.wiley.com/doi/full/10.1111/gcb.13246>

as reflected within the North Somerset and Mendip Bats Special Area of Conservation (SAC) Guidance on Development: Supplementary Planning Document.

Recommendation 10: NSC to work, when resources allow, with partners to raise awareness of soil health, regenerative agriculture and agroecology practices, and help support farmers and landowners to transition to these practices (e.g. via ELMS), as well as encouraging residents/communities to support their local food producers where possible.

9.3.6 Historic environment and Landscape

Green space and GI cannot be considered separately from the landscape setting and heritage/historic value of these spaces.

The preservation and enhancement of heritage assets are crucial in preserving the landscape and sense of place. Understanding the history of semi-natural and designed landscapes/green spaces is important in informing how these spaces are managed, conserved and protected, and often re-wilding or management to enhance biodiversity can be a positive enhancement to the setting of heritage assets.

When preserving and enhancing heritage assets, archaeological sites and non-designated heritage assets (those that aren't scheduled or listed and make up 90% of the historic environment) must be considered along with scheduled historic assets and designated landscapes.

North Somerset Council provide a Historic Environment Record (HER) search service. The following information is held on the historic buildings, sites and monuments record (HBSMR):

- designated heritage assets, including listed buildings, scheduled monuments and registered parks and gardens;
- monuments;
- events – excavations and surveys on archaeological sites;
- find spots;
- historic landscape characterisations;
- unpublished reports and notes; and
- historic mapping.

The management, conservation, enhancement and new provision of GI must also give consideration to landscape character, set out within the North Somerset Landscape Character Assessment Supplementary Planning Document (map provided at Appendix 3).

In addition, the West of England Joint Green Infrastructure Strategy is developing GI Area profiles which utilise landscape character assessments and reference historic landscape character and individual features and sites within them. This includes designed landscapes

and their settings such as formal historic parks and gardens, and/or the setting of individual historic settlements and heritage assets such as Conservation Areas, important Listed Buildings, critical views and vistas', Scheduled Monuments which provide historical, social, economic, cultural and environmental context and benefits.

Recommendation 11: In developing GI plans and projects, due consideration should be given to landscape and heritage assets to ensure that GI proposals complement these and contribute to place making.

9.3.7 School grounds/education land

School grounds and education land often have large areas of green space, the majority of which is maintained as close mown grass, and therefore in suitable areas, there is high potential for biodiversity improvement. Developing a diversity of habitats across school grounds, or within a particular area e.g. an outdoor classroom or designated 'nature area' for example, can provide an important teaching and learning resource, and link into various aspects of the curriculum. It also provides the opportunity to raise awareness of biodiversity issues and to inspire children and young people to take action, and even go on to study subjects such as ecology or nature conservation.

The Polli:Nation project was funded by The Heritage Lottery and worked with 260 schools and 35,000 pupils across the UK to support pollinators between 2015 and 2019.

Although the project is now completed, the website⁴⁶ provides advice and school resources to help identify pollinators and make habitat and homes for them. Resources include creative writing and scale drawing, exploring planting and flowers for pollinators, learn and discover key pollinator species and ideas on creative activities.

The Woodland Trust are currently offering free trees to schools and communities⁴⁷. The Forest of Avon Trust's Trees for Learning project also took place within schools in North Somerset, as part of a national programme for all England's Community Forests.

Recommendation 12: NSC and partners to encourage and support schools to take up wildlife friendly management on their grounds, involving school pupils in their management and making use of outdoor classrooms.

9.3.8 Private Gardens

⁴⁶ <http://polli-nation.co.uk/>

⁴⁷ <https://www.woodlandtrust.org.uk/plant-trees/schools-and-communities/>

There are approximately 89,484 gardens in North Somerset, with the average garden size for the district being 353.5m² (this compares with 188m² across Great Britain⁴⁸).

Figure 11 and Figure 12 show the percentage of addresses with private gardens and the average size of gardens by Middle Layer Super Output Area (an ONS geography with a mean population of 7200 people).

As can be seen the areas with the lowest percentage of gardens are around central Weston-super-Mare (although even in these areas 81% of addresses have gardens). Some of the smallest gardens (120m²) are also in this area. However, neighbouring areas such as Worlebury and Milton have some of the highest percentage of gardens within the District, along with parts of Clevedon and Nailsea.

As would be expected some of the largest gardens are found in the rural areas within the south-east of the District (up to 760m² in size).

Figure 11 North Somerset GI – Addresses with Private Outdoor Space

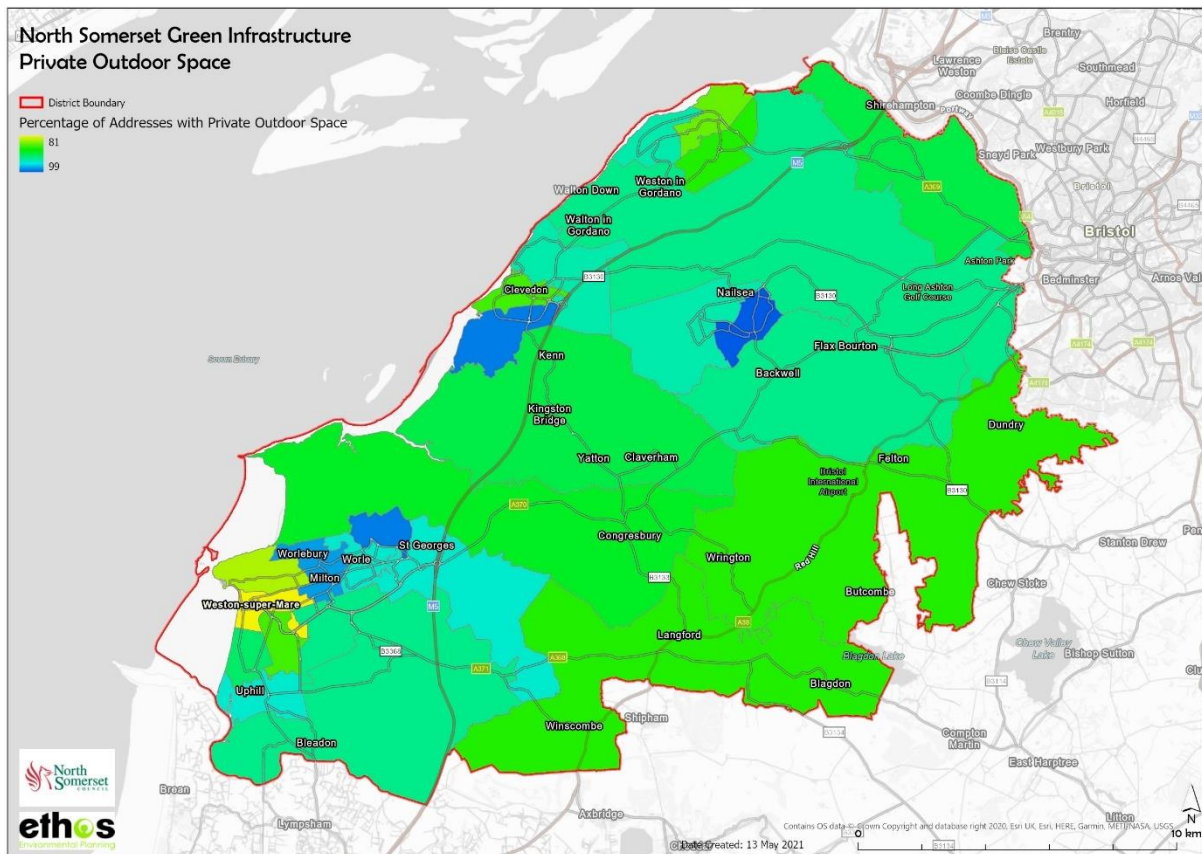
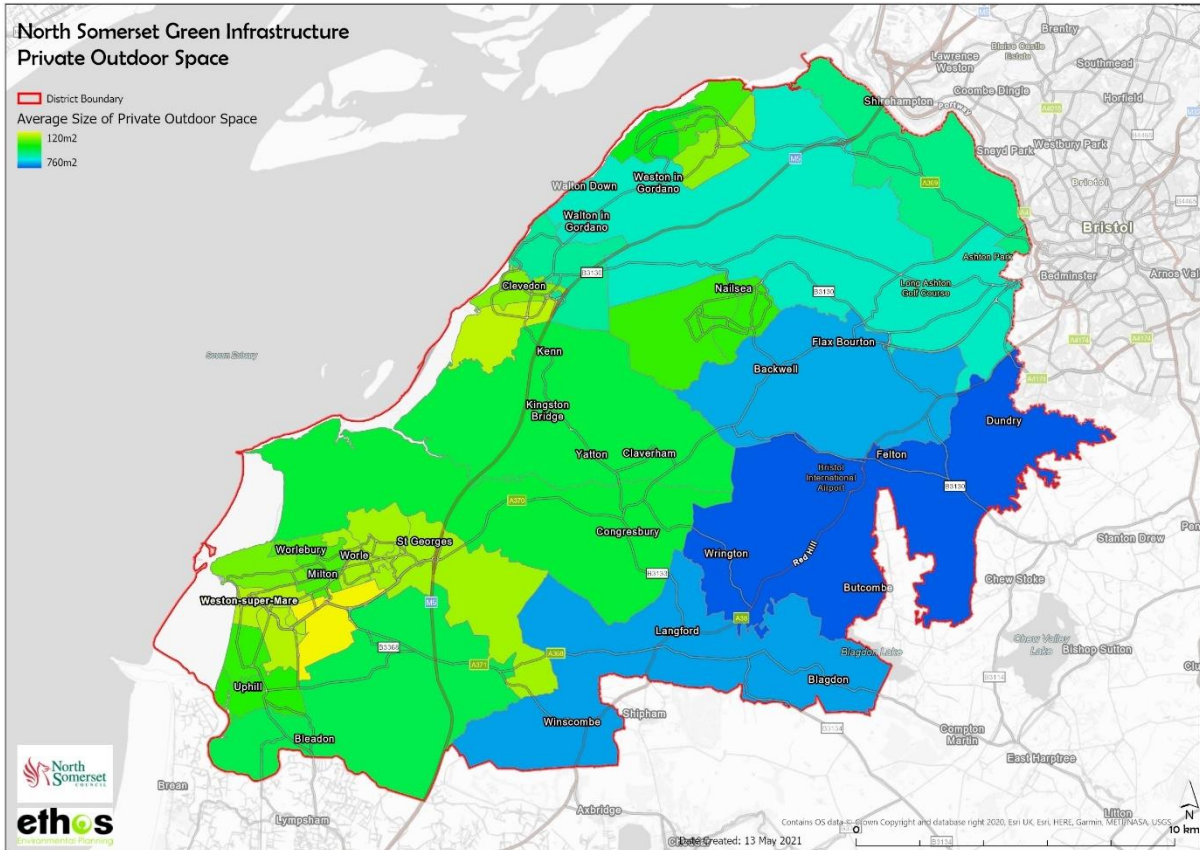


Figure 12 North Somerset GI – Average Size of Private Outdoor Space

48

[https://www.ons.gov.uk/economy/environmentalaccounts/articles/oneineightbritishhouseholdshasnogarden/2020-05-14#:~:text=The%20median%20garden%20size%20for,in%20Scotland%20\(the%20largest\).](https://www.ons.gov.uk/economy/environmentalaccounts/articles/oneineightbritishhouseholdshasnogarden/2020-05-14#:~:text=The%20median%20garden%20size%20for,in%20Scotland%20(the%20largest).)



Gardens for wildlife

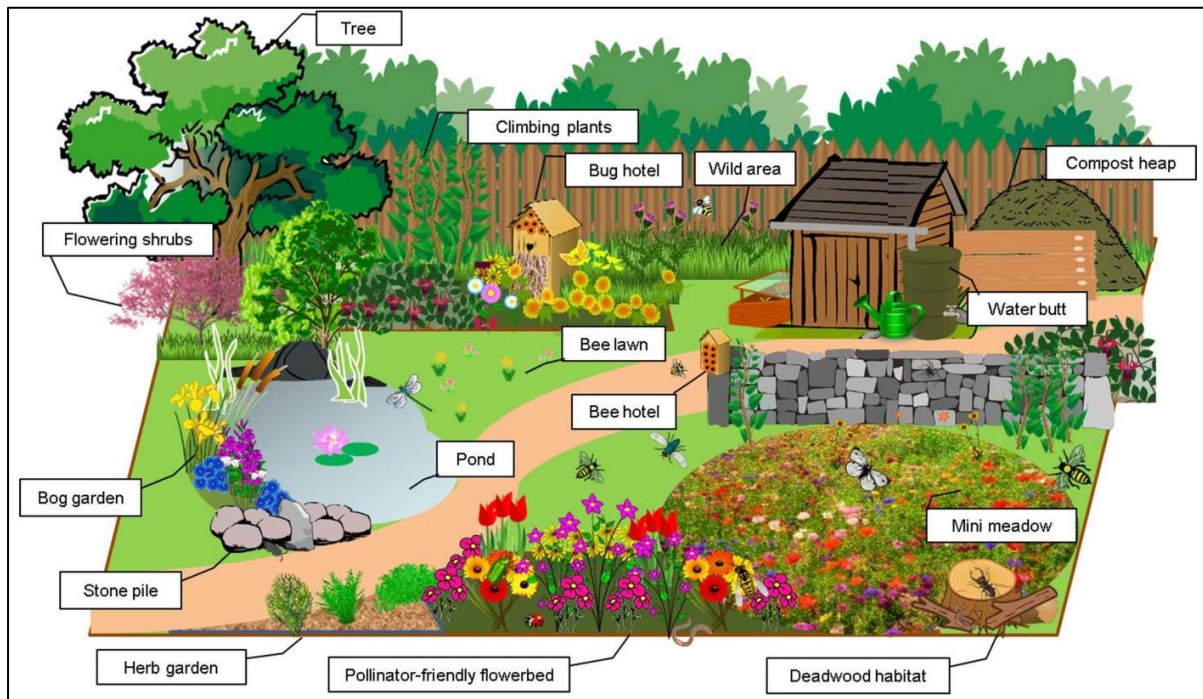
Private gardens have been identified as particularly rich in their insect pollinator communities, when compared with public parks and amenity greenspaces⁴⁹. Therefore, individuals can take actions to help address the ecological and climate emergency and to increase biodiversity. Increasing biodiversity in gardens also provides an opportunity for people to better engage with nature, providing tangible health and wellbeing benefits as well as contributing to food production.

The UK has an estimated 24 million gardens that could be a network of mini nature reserves.

There are numerous sources of guidance on wildlife friendly gardening, from general principles to step by step guidance on creating wildlife friendly features and habitat e.g. from Friends of the Earth, DEFRA, Plantlife, Buglife, The Wildlife Trusts, Gardeners World, BLUE campaign and the RHS (to name a few). Some examples are provided below.

⁴⁹ Baldock, K.C., Goddard, M.A., Hicks, D.M., Kunin, W.E., Mitschunas, N., Morse, H., Osgathorpe, L.M., Potts, S.G., Robertson, K.M., Scott, A.V. and Staniczenko, P.P., 2019. A systems approach reveals urban pollinator hotspots and conservation opportunities. *Nature ecology & evolution*, 3(3), p.363.

Buglife illustration – highlighting wildlife friendly features that can be incorporated into gardens.



DEFRA advice for pollinator friendly gardening/land management

Bees' Needs: Food and a home

DEFRA advises that there are 5 simple actions that everyone can take to help pollinators and make sure their populations are sustained:

1. Grow more flowers, shrubs and trees
2. Let your garden (or land) grow wild
3. Cut your grass less often
4. Don't disturb insect nest and hibernation spots
5. Think carefully about whether to use pesticides



Gardens for water management

Gardens can also help to reduce flood risk and improve water quality through attenuating rainwater. Rain gardens are a type of Sustainable Drainage System (SuDS). The term Rain Garden tends to encompass a whole range of garden design elements including soft landscaping like swales, hard landscaping like infiltration trenches and soakaways, and other components like green roofs, water butts, water features and ponds. These elements attenuate rainwater through increased filtration into the ground, slowing the flow of water to a water course or drainage system, or store rainwater in the garden for use at a later date.

Over the years there has been a growing trend towards people paving over their front gardens for parking spaces or for ease of maintenance. The combined effect of lots of people in a

street or area doing this can increase the risk of flooding and pollution to watercourses. ‘Depaving’ is the process of removing these impermeable surfaces such as concrete and tarmac and replacing them with materials such as soil, gravel and permeable paving which allow water to move through them. The ‘depaved’ areas can be planted with a wide variety of suitable plants.

The Environment Agency have produced guidance on the construction methods used to lay permeable paving⁵⁰. The RHS provide the following broad advice⁵¹:

- Keep paving to a minimum
- Non-permeable paving may require planning permission
- Leave space for plants, including hedges and climbers
- Allow driveways to drain into borders.

Recommendation 13: NSC and partners to encourage and support wildlife friendly gardening.

9.4 Planning and development

9.4.1 Overview

Within the emerging options for the new North Somerset Local Plan, there is a requirement to provide approximately 20,475 new dwellings during 2023-2038.

The protection and provision of GI and nature-based solutions as part of new development is critical in achieving sustainable development and sustainable management of resources. It is essential in addressing multiple planning policy requirements such as biodiversity net gain, SUDs, sustainable transport and ecology.

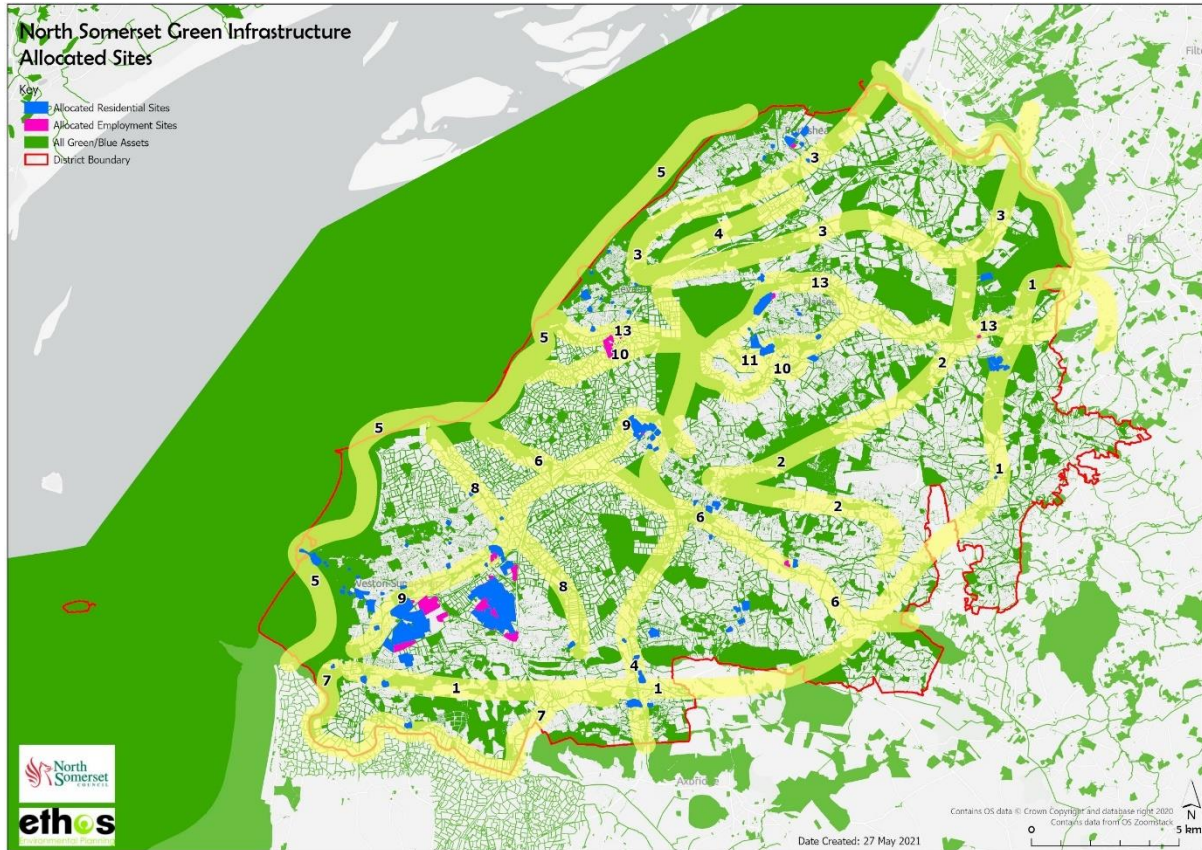
Figure 13 shows North Somerset’s allocated sites in relation to the GI network. New development should incorporate green infrastructure in a way that protects and enhances the quality and connectivity of GI. Sites of core importance to the Nature Recovery Network (such as existing high-quality grassland, semi-natural woodlands, wetland habitats etc.) should be protected and development should not result in severance of ecological connectivity within the network.

Figure 13 North Somerset GI – Allocated sites

⁵⁰ Guidance on the permeable surfacing of front gardens:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/7728/pavingfrontgardens.pdf

⁵¹ <https://www.rhs.org.uk/advice/profile?pid=878>



9.4.2 Standards for the design, delivery and maintenance of GI through development

Developers must demonstrate how they are embedding GI into their developments, from the master planning stage through to delivery and long term management and maintenance.

NSC advocates the Building with Nature standards, in order to guide the quality/layout of masterplans. Accreditation by Building with Nature is also encouraged (see below).

The priority areas for protection, new provision and quality improvements are within the GI network identified at Figure 5. However, GI components will be expected to be considered whether or not the development falls within the strategic GI network.

The requirement for GI provision should take into account other planning requirements including open space provision, biodiversity, transport and SUDs. A cohesive approach should be presented demonstrating how the GI Strategy delivers the following:

1. Meeting requirements of open space standards;
2. Complying with the biodiversity mitigation hierarchy (avoid, mitigate, compensate);
3. Complying with habitat requirements related to the 'North Somerset and Mendip Bats Special Area of Conservation (SAC) Guidance on Development: Supplementary Planning Document' (SPD);
4. Any additional mitigation requirements related to project specific Appropriate Assessment;

5. Delivering Biodiversity Net Gain requirements;
6. SUDs design and requirements;
7. Additional biodiversity enhancements not covered in the above such as the provision of bird and bat boxes, green walls, green roofs etc.

Building with Nature

The Building with Nature framework defines high quality green infrastructure at each stage of the development process, from planning and design, through to long-term management and maintenance.

Developers can apply to have their scheme assessed and accredited by Building with Nature. Awards at both pre- and post-construction stages are available, to highlight what good GI looks like at each stage of the GI lifecycle.

Applications are encouraged from different types of development, and at various scales, however the current accreditation system is set up to assess 'major' or 'significant' sites (10+ houses; 0.5 hectares or more; 1000+ square metres of floor space) and 'strategic' sites, such as major regeneration schemes or urban extensions, where there are likely to be greater returns for people and for nature.

Accredited schemes which are signed off post-completion, will be invited to apply for a Building with Nature National Award. This is an opportunity to showcase development where people and wildlife are benefiting from well-designed, expertly implemented and sustainably managed features. There are three levels of accreditation:

- **Design** – high quality green infrastructure demonstrated at the planning and design stage of development;
- **Good** – high quality green infrastructure, delivering benefits within the boundary of the scheme; and
- **Excellent** – exemplary quality green infrastructure, delivering benefits within and beyond the boundary of the scheme.

9.4.3 Building with Nature in practice

Some examples of developments that have applied the Building with Nature standards to achieve accreditation are provided below.

Elderberry Walk, Bristol (Design Award)

A brownfield development providing 161 new homes on the former Dunmail Primary School focuses around a central green street, with retained trees, new multifunctional green infrastructure features, a communal wildlife garden and edible planting.



Lower Mill Estate, Cotswolds (Design Award)

Up to 575 holiday homes in the heart of the Cotswolds, on former quarry site. Provides a rich network of GI, bringing benefit to both people and wildlife through a landscape-led approach.



Gloucester Services (Full Award (Good))

A north and south bound motorway service area on the M5 motorway, incorporating green infrastructure including an outdoor picnic area, play facilities and habitat provision. Leads with its connection to the surrounding Cotswold landscape, and delivers a tranquil setting for the benefit of visitors and employees.



9.4.4 The benefits of embedding GI into new development

As highlighted within the report Demystifying GI⁵² *‘Multi-functionality is a key concept for GI – i.e. making the best use of land to provide a range of valuable goods and services. As a result, it is critical in achieving sustainable development and sustainable management of resources. This is of increasing importance in the UK, a small and in some areas densely populated island facing a wide and often competing range of demands and challenges being placed on a finite land resource.*

GI needs to be part of a shared vision, requiring a holistic approach that embraces many disciplines and ecosystem service benefits while providing a network of connections at every landscape scale. It therefore permeates every level of the planning, design and management process, and is relevant at every scale of development. A positive and proactive approach to

⁵² Demystifying GI – UK Green Building Council, Feb 2015

GI will ensure the best use of the land, providing tangible returns on investment and increased functionality, together with attention to biodiversity and landscape character’.

Not only does the design, provision and maintenance of GI provide a range of environmental and social benefits (see Section 2.2), but it also provides direct and tangible benefits to the developer, including:

- **Enhanced reputation:** showcasing best practice, attracting high quality staff, positive engagement with communities and planning authorities, and a chance for national awards.
- **Reduced costs and increased land/property value:** taking a holistic approach from the start of the project that embraces and considers all relevant disciplines together will ensure the best possible scheme layout, therefore reducing construction and maintenance costs. There is a multitude of evidence showing that GI also increases the value of land and property.
- **Planning permission clarity:** clearly demonstrating how the development will meet a number of local and national policies and have multiple benefits for society, the environment and the economy can result in the planning authority looking more favourably on the development and result in planning consent with fewer planning conditions.

9.4.5 Mechanisms for delivering GI through planning and development

Planning and development can positively contribute to the strategic GI network through: Developer contributions (planning obligations); provision of Suitable Alternative Natural Greenspace (SANG); biodiversity net gain; carbon offsetting and nitrate/phosphate offsetting. These current mechanisms for GI delivery are examined in Appendix 2.

North Somerset currently delivers new GI largely through a mix of developer funded and delivered infrastructure and developer contributions, both on and off-site. The authority is also exploring payments for sustainable land management, biodiversity net gain units (habitat banking) by developing a Biodiversity Net Gain Strategy. It is also seeking to adopt ‘Suitable Alternative Natural Greenspace’ or SANG’s, to be used as mitigation for recreational pressures on particular European sites.

There may also be potential for Nitrate/Phosphate offsetting within North Somerset, where new development is likely to impact on the Severn Estuary European Marine Site.

Carbon sequestration through woodland creation has been identified as a cost-effective means of mitigating climate change and the authority has commenced a significant amount of tree planting on its managed public open spaces as part of its ‘rewilding’ initiative and carbon reduction objectives. Similar initiatives including grant funded planting and working

in association with other bodies, such as the Forest of Avon Trust all contribute to the delivery of GI across North Somerset.

It is noted that National GI Standards, a key objective of the Government's 25 Year Environment Plan, are being developed by Natural England (at the time this strategy was written) and if adopted may amend or supersede a number of current planning obligations.

NSC will be reviewing its existing 'typology' based development contributions, which are in need of updating. This review will investigate all of the above mechanisms and may form part of a wider review of the Council's Development Contributions Supplementary Planning Document, in support of the emerging Local Plan to 2038.

It is envisaged that some or all of these multiple delivery mechanisms can be brought together, to enable development and projects with a wider and more ambitious vision and objectives.

Biodiversity net gain

Biodiversity Net Gain is an approach to development that leaves biodiversity in a better state than before. Where a development has an impact on biodiversity it encourages developers to provide an increase in appropriate natural habitat and ecological features over and above that being affected in such a way it is hoped that the current loss of biodiversity through development will be halted and ecological networks can be restored.

Biodiversity Net Gain is set to become a mandatory part of planning through the Environment Bill to compensate for loss of biodiversity through development. Once enacted, this is likely to require any development under the Town and Country Planning Act 1990 (except Permitted Development and Householder Applications) to evidence a minimum 10% increase in biodiversity value and 30 years of habitat management for biodiversity. Further to this, BNG is supported within the National Planning Policy Framework (NPPF), which states that planning policies and decisions 'should contribute to and enhance the natural and local environment by minimising impacts on and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures.'

DEFRA have developed a metric to measure the impacts of development on biodiversity to meet the NPPF policy. Many local planning authorities now require net gain to be considered as part of development applications. To claim BNG and to generate long-term gains for nature, the 10 BNG Good Practice Principles for Development (CIRIA, CIEEM and IEMA, 2016) are followed. The principles provide the framework for high quality and meaningful BNG that should make a measurable and positive contribution to biodiversity.

There is potential for some of NSC's landholdings to generate income through the provision of biodiversity net gain units (habitat banking), where off setting of biodiversity loss from new development sites is required.

North Somerset Council are considering implementing a nature park to deliver strategic mitigation for wildlife. This would be known as the North Somerset Nature Park.

West of England Biodiversity Net Gain (BNG) Guidance

The development of BNG guidance has emerged as a strategic project from the preparation of the West of England Joint Green Infrastructure Strategy (JGIS) 2020-2030.

NSC are currently investigating their own Biodiversity Net Gain Strategy.

Suitable Alternative Natural Greenspace (SANG)

‘Suitable Alternative Natural Greenspace’ is the name given to green space that is of a quality and type suitable to be used as mitigation for recreational pressures on particular European sites. The role of SANGs is to provide alternative greenspace to divert visitors from European sites and reduce the potential impact of residential development on European sites by preventing an increase in visitor pressure. The effectiveness of SANGs as mitigation will depend upon the location and design, which must be such that the SANG is equally as attractive as the European site(s) to users of the kind that currently visit European sites.

European sites within North Somerset are:

- The North Somerset and Mendip Bats (SAC);
- The Severn Estuary European Marine Site (SPA/SAC/Ramsar);
- The Mendip Limestone Grasslands (SAC); and
- The Avon Gorge Woodlands (SAC).

The Sustainability Appraisal Scoping Report for North Somerset’s new Local Plan (2038) sets out the requirement for an appropriate assessment to address likely impact on European Sites. The creation of SANG and SANG policy/strategy could be a mitigation measure arising from the appropriate assessment. The ensuing Habitats Regulation Assessment for the Local Plan will provide more detailed requirements.

There is potential to create new amenity woodland as SANGS sites, to help ease recreational pressure from more sensitive sites, while also supporting carbon capture, the rural economy and providing new wildlife habitat. It is also critical to ensure strategic protection for biodiversity and this can be achieved through protecting land in the form of a nature park.

Carbon Offsetting/Sequestration

Carbon sequestration through woodland creation has been identified as a cost-effective means of mitigating climate change. The Woodland Carbon Code is the voluntary standard for UK woodland creation, it is based on a ‘outputs-based approach’ as businesses pay for tonnes of carbon sequestered. The code allows credits to be both sold before and after planting to help raise revenue associated with both capital and maintenance costs, and also to meet upfront costs.

Nitrate/Phosphate offsetting

High levels of nitrates and phosphates in water are a problem because they cause oxygen depletion which is harmful to humans and biodiversity. Key sources of nitrate pollution are farming (artificial fertilisers and animal waste leaching into water) and domestic and industrial sewage.

Defra and Natural England have launched a nitrate offset scheme to unblock housebuilding in south Hampshire by offsetting nitrogen impacts on the Solent. Housing developers will buy credits to create new habitats such as meadows, woodlands and wetlands on poor quality agricultural land, which will prevent harmful levels of nitrates from new housing from reaching the Solent's rare wildlife and habitats.

However, Natural England do not currently regard air or water pollution as being a significant issue for the Severn Estuary designated site (s) due largely to its exceptionally high tidal range and constant turbidity; although saltmarsh habitats are potentially more sensitive to changes to air and water quality. The forthcoming Habitats Regulation Assessment for the Local Plan will provide more detailed requirements to address likely impact on European Sites.

Policy Recommendations

Recommended multi-functional GI policy

The Strategy is providing an important evidence base for the formulation of policies and proposals to be included in the councils new Local Plan (2038). Delivery of Green Infrastructure may also be through means of neighbourhood plans.

A Green Infrastructure Planning Policy Assessment Tool⁵³ has been developed with the Glasgow and Clyde Valley Green Network (GCVGN). This self-assessment tool, complete with guidance for local authorities to use, is free and designed to improve the design and wording of policies that address GI functions within strategic and local plans. It has been informed by the Building with Nature standards.

Of particular importance is the need to move away from producing a single GI policy to develop separate but linked policies that cover the full range of functions that green infrastructure covers.

The assessment tool is built on the report 'Green Infrastructure Policies in the CSGN – A Review of Local Authority Policies on Green Infrastructure in Built Development⁵⁴', which establishes the quality of current and/or proposed Green Infrastructure (GI) relevant policies in local authorities' Local Development Plans and Supplementary Guidance within the Central Scotland Green Network (CSGN) area. The study also revealed the relative importance of Supplementary Guidance as the location for GI policy.

⁵³ <https://mainstreaminggreeninfrastructure.com/outputs-page.php?Making-Better-Policies-and-Plans-for-Green-Infrastructure:-A-Self-Assessment-Tool>

⁵⁴

[https://mainstreaminggreeninfrastructure.com/reports/GI%20Policies%20in%20the%20CSGN%20FINAL%20v5.2%20Report%20and%20App%201%20\(1\).pdf](https://mainstreaminggreeninfrastructure.com/reports/GI%20Policies%20in%20the%20CSGN%20FINAL%20v5.2%20Report%20and%20App%201%20(1).pdf)

As a follow- on task, the study collated the best policies as a suite of example GI policies, which are set out in Table 4 below.

Table 4 - Suite of example GI policies (from Green Infrastructure Policies in the CSGN – A Review of Local Authority Policies on Green Infrastructure in Built Development).

Green infrastructure primary policy	
Green infrastructure is integral to place-making underpinned by the qualities of successful places, and therefore must be part of the design process from the outset, providing water management, access networks, habitat enhancements and open space functions.	
To achieve this, developments are expected to: <ul style="list-style-type: none"> • discuss what green infrastructure is appropriate for the site at pre-application meetings with the planning authority and relevant stakeholders; • appraise the site context for green infrastructure functions, undertake habitat and hydrological assessments of the site as requested through the pre-application discussions, and demonstrate how they have influenced the design; and • take opportunities to achieve multi-functionality by bringing green infrastructure functions together. 	
Green infrastructure functions	
Water management	Access networks
Development proposals will integrate naturalised SuDS into the design of green infrastructure, and where they are part of open space obligations will be safe and accessible, creating an attractive and distinctive setting for new developments.	Development proposals will maintain and enhance the quality and connectivity of access networks, integrating active travel routes (linking workplaces, schools, community facilities and public transport hubs) and recreation routes into green infrastructure.
Habitat enhancements	Open space
Development proposals will conserve and enhance on-site biodiversity; habitat networks within and adjacent to the site; and habitats associated with the strategic wildlife network	Development proposals will meet local accessibility, quality and quantity standards for open space, and be designed to cater for the needs of the community.
Stewardship of green infrastructure	
Developers will provide details of the green infrastructure functions and maintenance requirements, and the party responsible for these, and demonstrate funding arrangements for their long-term delivery to the satisfaction of the local authority before construction starts.	

The example policies and functions above should form the basis for GI approach within the NSC new local plan. In addition to the above, GI policy should also include specific consideration of heritage and landscape, and any additional specific ecological requirements not covered by Biodiversity Net Gain or Appropriate Assessment (see below) as required by the mitigation hierarchy (avoid, mitigate, compensate).

There is a need for policy to include clearer expectations and standards, and earlier provision of and increased resourcing for green infrastructure. For example, new development should be required to provide approved green infrastructure ahead of new development as a matter of course, like power, water and transport infrastructure.

Biodiversity net gain policy

The requirement for biodiversity net gain (BNG), where possible, is set out within the NPPF and is soon to be mandated within the Environment Bill.

The local plan policy should set out the following:

- Net gain should be delivered in line with the upcoming Environment Act;
- What the specific local requirement is for BNG (e.g. North Somerset specific approach or West of England approach).

Open space policy

Updated policy/SPD will be required in relation to any open space review undertaken.

European sites/Appropriate Assessment policy

Following completion of the Appropriate Assessment (as part of the new Local Plan 2038), policies will need to be set out for required mitigation on European sites e.g. recreational impacts, impacts on bats, Water Framework Directive.

10.0 DELIVERY AND MONITORING

This section of the report sets out the approach for the delivery and monitoring of the GI strategy.

10.1 Key Principles for GI in North Somerset

In order to implement the objectives (Section 3) and action plan, this strategy has adopted the WoE JGIS principles of: Educate, Embed, Collaborate, Evidence, Invest and Communicate.

Overarching principles for GI	How will NSC do this?
<p>Educate: Ensure that the multi-functional benefits of Green Infrastructure including contribution to human health and wellbeing are better understood and clearly recognised by authorities, agencies and other partners. Resulting in, increased allocation of funding for GI and a Green Infrastructure focus integrated into the planning and development process, through using the tools and metrics required by national legislation.</p>	<p>The action plan includes the development of a communication and education plan. The GI Strategy will form part of the new Local Plan evidence base.</p>
<p>Embed: Apply a natural capital approach in accordance with national legislation and guidance to seek to ensure that new development delivers a net gain in natural capital whilst protecting irreplaceable habitats and support the maintenance and enhancement of the strategic Green Infrastructure network.</p>	<p>The GI Strategy will be embedded across council departments, which will consider how projects and decisions will affect the environment and people, with the aim of protecting and enhancing of GI and natural capital in order to maximise the benefits provided (ecosystem services).</p> <p>Action plan point - develop decision making process to consider how projects and decisions affect the environment and people, using the Cornwall decision-making wheel as a template? https://www.cornwall.gov.uk/media/43hpmphv/decision-making-wheel-flier.pdf</p> <p>For example, the Councils new Local Plan 2038 will include GI policy informed by this strategy, and well as policy on biodiversity net gain.</p> <p>Or:</p> <p>The Council’s Drainage Team has been incorporated with the</p>

	<p>Environment/Ecology team and is working in partnership with the Bristol Avon Rivers Trust to identify natural solutions to help slow the flow.</p> <p>NSC are also assessing options to develop a North Somerset Natural Capital Account/Strategy.</p>
<p>Collaborate: The authorities, agencies and other partners in their delivery of Green Infrastructure across the West of England will ensure early, continuous and effective engagement with each other.</p>	<p>NSC will continue to work with existing partners through WoE and more locally, and continue to build partnerships.</p>
<p>Evidence: Monitor and keep an up-to-date West of England shared Green Infrastructure and biodiversity evidence base.</p>	<p>NSC aim to improve baseline data and monitoring and recording of GI projects through developing citizen science projects e.g. bat detection project with UWE, Rewilding Champions with AWT, to record changes in biodiversity, and develop spatial recording e.g. through web maps.</p>
<p>Invest: Secure investment in Green Infrastructure through the planning process and other delivery and funding mechanisms to deliver strategic Green Infrastructure priorities and its long-term stewardship.</p>	<p>NSC will invest in GI through their own budgets and land management e.g. re wilding project, through partnership working, seeking external funding, and through Local Plan Policy.</p>
<p>Communicate: Promote wider public understanding of GI and natural capital, the benefits it provides and opportunities to enhance Green Infrastructure in the West of England.</p>	<p>Covered under ‘Educate’.</p>

10.2 Delivery

10.2.1 Key delivery mechanisms

The key delivery mechanisms, together with land acquisition and/or management, that need to be used together to deliver the Strategy objectives and any identified projects are:

- Planning policy (see Appendix 2);
- Funding (see Appendix 6);
- Community involvement; and
- Skills and partnership working.

10.2.2 Partnerships and community involvement

The GI Strategy cannot be delivered by NSC alone. It is intended for use by policy makers and practitioners working in all sectors, particularly those with a role in creating sustainable places; strategic and policy planners, developers, managers of land and natural capital, communities and businesses.

The council will seek actively to work with partners locally in North Somerset, regionally in the West of England and beyond to drive collaborative action. In delivering this strategy, NSC will help deliver the WoE Joint GI Strategy. Current and potential partners are set out below:

Public Interest

- Planning and Highway Authorities
- GI Partnerships
- Local Service Providers
- Statutory Consultees
- Education/Schools
- Sports

Specific groups in North Somerset may include:

- Regional: West of England Combined Authorities (WECA), West of England Nature Partnership (WENP), Severn Estuary Partnership, Forest of Avon Trust, Bristol Avon Catchment Partnership (BACP), Bristol Avon Rivers Trust (BART), Wessex Water, Mendip Hills AONB Partnership, Local Enterprise Partnership
- NSC: North Somerset Levels and Moors Partnership (NSLM), Go4Life Partnership, Community groups and Friends groups
- Strategic Orgs: Natural England (NE), Environment Agency (EA), Woodland Trust (WT), National Trust (NT), Avon Wildlife Trust (AWT), Bug life (B-lines), Wildfowl and Wetlands Trust (WWT), Farming and Wildlife Advisory Group (FWAG), Association of Severn Estuary Relevant Authorities (ASERA).

Private Interests

- Private landowners/farmers
- Developers
- Management Agents
- Transport Providers e.g. Network Rail Local Politicians

Community Interests

- Amenity Groups
- Special Interest Groups
- Local Communities
- Children & Young Persons
- Visitors

10.2.3 Funding

It is expected that GI will be delivered and funded through a number of key mechanisms, including:

- Planning conditions, obligations and/or Community Infrastructure Levy (CIL) placed on developers;
- Developers integrating the principles into their proposals
- NSC including it in actions e.g. land management.
- Special projects that draw on external funding or grant schemes; and
- Local community action, including fundraising and use of the voluntary sector and charitable trusts.
- Land and landowners – where land falls within the Nature Recovery Network and/or strategic GI corridors/GI network (or other opportunity areas) – the Council and partners should work with landowners and promote funding opportunities.

Appendix 6 sets out some specific funding sources that will be considered in delivering the strategy.

***Recommendation 14:** Investigate interest/resources for establishing a GI Forum to oversee the delivery of GI in North Somerset, including: coordinating stakeholders' views; identifying opportunities for securing delivery; raising awareness on key issues or barriers to delivery; and encourage community engagement in delivery of the strategy, as well as linking to high-level partnership groups e.g. WENP.*

10.3 Monitoring

Monitoring will help to inform and refine future spatial plans and policies relating to green infrastructure. Strategic monitoring will focus on the extent to which the planned green infrastructure network is delivered and at a local level what multifunctional benefits are actually being delivered on the ground. A consistent method of monitoring delivery and developing a co-ordinated and consistent method of reporting green infrastructure delivery should form part the North Somerset GI Strategy.

Part 2 of this report sets out project specific measures within an Action Plan which will form the basis of the approach to monitoring. It is important to establish key measures to evaluate the success of the implementation of this strategy and it is recommended that this is focused around project delivery.

An annual monitoring report against the action plan should be produced and this used in turn to update the action plan.

10.4 Action Plan

The Action Plan is provided at Part 2 of this report.

Part 2 – Action Plan

This Action Plan covers strategic short-term, medium-term and long-term actions in order to take forward the recommendations and deliver the vision, aims and objectives of the strategy. The Action Plan is a live document which will be reviewed annually and updated as plans and projects progress.

Each action is linked to a GI theme and objective(s), and identifies the lead organisation, partners, targets, timescales and funding source.

Both the GI corridors and opportunities for improving GI are indicative, and where they fall on private land, discussion around opportunities and partnerships would be sought. No action would be taken without first consulting with the landowner.

Indicative time scales for projection completion have been included based on the following timeframes:

- Short term – to be completed by 2024
- Medium term – to be completed by 2027
- Long term – to be completed by 2031
- Ongoing – some areas of work will be continuing throughout the period of the strategy

It is intended that the Action Plan will be regularly reviewed and updated, allowing for a thorough review of how well the activities set out in the Plan have been implemented, whether activities have been completed and should be removed, and whether new activities should be added in order to achieve our objectives.

Action Plan themes

Central to the concept of green infrastructure is the concept of multifunctionality. With green infrastructure having such a wide range of functions we have categorised the actions into eight themes enabling us to organise them more effectively.

The themes selected for this Action Plan originated from work carried out through the development of a green infrastructure policy assessment tool created through a wider partnership that included Planners from the West of England⁵⁵.

The themes are described in more detail in Table 5 below.

⁵⁵ [GI Planning Policy Assessment Tool \(mainstreaminggreeninfrastructure.com\)](https://www.mainstreaminggreeninfrastructure.com)

Theme	Description
Policy plan mainstreaming	Ensuring that green infrastructure is embedded within Planning Policy especially during the creation of the Local Plan
Development integration	Ensuring that green infrastructure is integrated into all aspects of development including design and landscape setting and its multi-functional benefits are fully realised.
Biodiversity habitats	To enhance biodiversity and to expand networks
Physical environment – water	To address coast and in land flood risk, water quality,
Physical environment – trees	To ensure trees are well maintained, canopy cover is increasing and nature recovery networks established (woodlands)
Access networks	Ensuring access opportunities are maximised, especially on Public Rights of Way
Greenspace	Ensuring our spaces provide good quality recreation opportunities to maintain and improve health and well-being
Stewardship	Ensuring that our parks and open spaces are managed and maintained appropriately and that resourcing levels are properly identified.

Table 5 – Action Plan themes

The Action Plan also includes more information about project delivery such as project leads, likely timescales, and funding options.

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
Access networks	<i>Well connected, safe networks for recreation and work</i>	<i>Our rights of way network is essential for recreation, commuting and the economy; and are essential in addressing the climate emergency. The GI strategy highlights opportunities to improve key strategic access routes</i>					
Page 120	Extending the Strawberry Line from Yatton to Clevedon	The establishment of a route along the Strawberry Line from Yatton Station through Kenn to Clevedon by 2025, by creating a bridleway	Health and wellbeing for all	North Somerset Council	Natural Environment	S106, Sustainable Transport	Medium term
	Creating the England Coast Path through North Somerset	Working on behalf of Natural England carry out all works to create the coast path from Brean to the River Avon by mid-2022. Create a marketing plan to attract visitors to this section of the England coast path to support the local tourist economy.	Health and wellbeing for all	Natural England	Natural Environment	England Coastal Path Establishment Fund (EU Funding)	Medium term
	Publish the updated rights of way improvement plan	Publish the updated rights of way improvement plan by December 2021	Create and maintain sustainable places	North Somerset Council	Natural Environment	Existing revenue budget, funding from Parish Council, S106 funding	Short term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
	Rights of way connections	By overlaying PROW map with GI opportunity areas identify key gaps in the ROW network. Set a framework for creating links and access opportunities by December 2021 as part of the ROWIP update	Health and wellbeing for all	North Somerset Council	Natural Environment	Existing revenue budget, funding from Parish Councils, S106 funding	Short term
Page 121	Working with volunteers on the rights of way network	Continue to develop opportunities for volunteering on the PROW network	Engage and empower the local community and local groups to be active partners in the delivery of the Action Plan	North Somerset Council	Natural Environment	Existing revenue budget	Ongoing
	Supporting the delivery of the active travel strategy	Identify specific outcomes from the strategy to deliver	Greater resilience to climate change	North Somerset Council	Natural Environment	Highways grant funding	Ongoing
Biodiversity and habitats	<i>To create and enable biodiversity net gain.</i>	<i>Improving biodiversity is essential to address the nature emergency. We will seek to do this by improving our land, supporting landowners enhance nature recovery networks,</i>					

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
		<i>supporting education and improved communication about biodiversity, and working in partnership with all interested parties and stakeholders.</i>					
Page 122	Develop stronger links with the farming community.	Enclosed farmland makes up 68% of all land in North Somerset. Engaging and supporting the farming community to improve GI on farms will enable significant improvements to green infrastructure in North Somerset. Incorporate working practices to support farmers to improve nature recovery networks across North Somerset	Improved and better-connected ecological networks	Landowners working with a range of partners	Natural Environment	Existing revenue budget	Ongoing
	Prepare strategic plan for improving biodiversity in the North Somerset Nature Park.	The strategic management of wildlife as part of the Local Plan will be most effective by creating a management plan that identifies key objectives and associated Action Plan to deliver improvements. This will be required at the same time of the inception of the NSNP.	Improved and better-connected ecological networks	North Somerset Council	Natural Environment	Existing revenue budget	Short term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
	Working with a range of partners to deliver the Nailsea outfall water quality improvement project	To support partners in constructing a reed bed to improve the water quality of surface water drainage from Nailsea before it enters the SSSI and pollutes it. Construction dependent on financing being available.	Improved and better-connected ecological networks	Wessex Water	Natural Environment	Grant funding will be required	Long term
Page 123	Delivering Biodiversity Net Gain	Set out the mechanism for securing BNG from development SPD to set out process for securing BNG via planning permissions. Set out data and evidence requirements to accompany planning applications Set out on-site standards for habitat creation Set out proposed offsets which could provide units to developers (both NSC and 3rd party) Set out monitoring requirements for on-site and offsite BNG Establish unit costs or contributions for NSC offsets Seek legal and planning advice to produce this	Improved and better-connected ecological networks	North Somerset Council	Natural Environment	Existing revenue budget	Short term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
Page 124	Deliver Council motion to rewild as much of North Somerset Council land as possible	Complete objectives to plant 50,000 trees and introduce tall grass manage to 40 hectares of open space by 2022; create a management plan for ongoing maintenance; and identify more areas of council land for re-wilding/management for biodiversity and manage 30% land for biodiversity by 2030 (In accordance with the government commitment).	Improved and better-connected ecological networks	North Somerset Council	Seafronts and Parks	Existing revenue budget	Medium term
	Prepare a local nature recovery plan	This will address the Environment Bill requirement to prepare a Local Nature Recovery strategy that will specify how 30% of the land and seas of North Somerset will be positively managed for nature by 2030. Our plan will map the most valuable areas for wildlife, identify opportunities to improve nature further and local priorities for increasing biodiversity. The plan will be created by 2024 in conjunction with local stakeholders and following more detailed guidance	Improved and better-connected ecological networks	North Somerset Council	Natural Environment	Existing revenue budget	Medium term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
		following Royal Consent of the Environment Bill.					
Page 125	Develop improved habitats for greater horseshoe bats	By 2022 have developed a significant dataset of Greater Horseshoe Bat lifecycle needs utilising three phases: 1. Static bat detecting 2. Bat tracking 3. Citizen science project and to utilise the data to improve habitat improvements and to support the creation of the North Somerset Nature Park	Improved and better-connected ecological networks	North Somerset Council	Natural Environment	Existing revenue budget	Short term
	Create a citizen science project with the University of the West of England (UWE) to improve understanding of bat populations across North Somerset.	By 2022 have created a project in partnership with UWE to enable the public to use our static bat detection equipment to collect bat data that will be used to continually update our knowledge and datasets, ensuring our policies remain	Improved and better-connected ecological networks	UWE	Natural Environment	UWE	Short term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
		relevant in terms of Planning and other purposes.					
Page 126	NSC to become the District Licensor for greater crested newts	By 2025 have the processes in place; and available resources; to become the licencing authority for greater crested newts in North Somerset.	Improved and better-connected ecological networks	Natural England	Natural Environment	Income from the licencing scheme	Medium term
	North Somerset Levels and Moors partnership project	To fully participate in the delivery of the aims of the partnership during the management plan period of 2021-2031	Improved and better-connected ecological networks	Avon Wildlife Trust	Natural Environment	Grant funding will be required	Ongoing
	Environmental data recording	To evaluate the environmental data records needed to support North Somerset Council to deliver the green infrastructure strategy; to investigate sources of funding to curate the data; and to be capable of facilitating wider projects involving natural capital assessments, biodiversity net gain, carbon sequestration and NRN; and to be forward thinking about adapting to the	Improved and better-connected ecological networks	North Somerset Council	Natural Environment	Grant funding will be required	Medium term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
		climate and nature emergency through modelling. To be completed by 2024.					
Page 127	Pesticide reduction project	To have reduced North Somerset Council pesticide by 80% by 2030	Improved and better-connected ecological networks	North Somerset Council	Natural Environment	Existing revenue budget	Long term
	Environment Land Management Scheme implementation	Seek funding for 10% of North Somerset land to be covered by ELMS by 2030	Improved and better-connected ecological networks	North Somerset Council	Natural Environment	Natural England	Long term
	Improving the connectivity and quality of GI in North Somerset - see Appendix 4	The GI strategy highlights some specific opportunities for improving the connectivity and quality of woodland and grassland habitat, drawing on various sources including SSSI condition assessment, NRN data (which utilised the Natural England Habitat Network1 dataset)	Improved and better-connected ecological networks	Landowners working with a range of partners	Natural Environment	A range of funding options	Long term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
Page 128	Creating wildlife friendly gardens	Promote and support wildlife friendly gardening within private gardens and school grounds; bird boxes/hedgehog runs etc for new builds; and create a policy to ensure new development gardens and houses are designed to be wildlife friendly habitats to maximise biodiversity.	Improved and better-connected ecological networks	Developers	Natural Environment	Existing revenue budget	Ongoing
	Natural capital valuation tools	Investigate Natural Capital valuation tools to help support decision making and investment in green infrastructure within North Somerset	Improved and better-connected ecological networks	North Somerset Council	Natural Environment	Existing revenue budget	Short term
Development integration	<i>Provide policy for the Local Plan that enhances green infrastructure and support development to deliver the objectives</i>	<i>Good green infrastructure underpins well-designed homes, places of work, and important infrastructure such as new transport facilities and schools. We will work within the planning system to ensure that the development and use of land results in better places for people to live, the delivery of development where communities need it, as well as the protection and</i>					

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
		<i>enhancement of the natural and historic environment and the countryside.</i>					
Page 129	Mainstream green infrastructure in the Local Plan	Work with Planning Policy to ensure that the green infrastructure objectives are fully incorporated into the Local Plan.	Create and maintain sustainable places	North Somerset Council	Natural Environment	Existing revenue budget	Short term
	Create the North Somerset Nature Park (NSNP)	The NSNP will play two very critical roles in improving green infrastructure in North Somerset. It will provide strategic mitigation for Greater Horseshoe bats and associated ecosystems; and it will provide a location for the SANGS.	Create and maintain sustainable places	North Somerset Council	Natural Environment	A range of funding options	Short term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
Page 130	Develop a suite of Supplementary Planning Documents (SPD) to add relevant detail to the green infrastructure policies in the Local Plan. These will provide further guidance for development on specific sites and, or, on issues, such as design.	Develop SPDs for the following: Trees by 2024 Biodiversity Net Gain by 2023 Rights of Way by 2025 Open space standards by 2024 Suitable Alternative Green Space (SANG) - by 2025 North Somerset Nature Park by 2022 Bats by 2022	Create and maintain sustainable places	North Somerset Council	Natural Environment	Existing revenue budget	Medium term
	Adopt Building for Nature standards for new development	Adopt Building with Nature Standards to ensure that GI is protected and enhanced as part of new development, from the design and master planning stage, through to delivery and management. To be included in the revised Local Plan.	Create and maintain sustainable places	North Somerset Council	Natural Environment	Existing revenue budget	Short term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
Greenspace stewardship	<i>Parks and open spaces are vital spaces for recreation, biodiversity, health and well being</i>	<i>Well maintained spaces are critical for user enjoyment and safety and ensures the multiple benefits of green infrastructure can be realised. Effective engagement with communities is also a key element</i>					
Page 131	Complete an open space access assessment	Undertake an access assessment for parks and open spaces to evaluate barriers to access that need addressing. Especially focus on deprived areas where negative impacts of lack of open space are highest	Health and wellbeing for all	North Somerset Council	Seafronts and Parks	Existing revenue budget	Short term
	Rewilding champions lottery project	Lottery funded project in partnership with Avon Wildlife Trust to develop volunteering opportunities to support rewilding and to measure biodiversity changes to be completed by October 2022	Improved and better-connected ecological networks	North Somerset Council	Seafronts and Parks	National Lottery	Short term
	Worlebury hillfort lottery project	Make an application to the lottery to fund activities to protect the hillfort for future generations to be completed by the end of 2023	Create and maintain valued healthy landscape	North Somerset Council	Seafronts and Parks	National Lottery	Short term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
	Create a developer contribution policy	Secure new GI provision and enhancement through CIL and S106 contributions, by prioritising projects using an agreed method. To continue to develop and deliver projects funded by s106 and CIL and to prepare a pipeline of projects	Create and maintain sustainable places	North Somerset Council	Seafronts and Parks	Existing revenue budget	Ongoing
Page 132	Infrastructure survey of parks and open spaces	To carry out a condition survey of parks an open spaces infrastructure to be completed by August 2022	Health and wellbeing for all	North Somerset Council	Seafronts and Parks	Existing revenue budget	Short term
	National awards engagement	Seek appropriate awards to demonstrate high quality green infrastructure management of parks and open spaces e.g. Green Flag, in bloom etc	Engage and empower the local community and local groups to be active partners in the delivery of the Action Plan	North Somerset Council	Seafronts and Parks	Existing revenue budget	Ongoing
	Parks improvement plan	Develop a strategy for our parks and play areas which reflects contemporary needs, enhances community engagement, considers new ways for delivery and raises	Create and maintain valued healthy landscape	North Somerset Council	Seafronts and Parks	Existing revenue budget	Short term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
		more income to be completed by December 2024					
	Green Social Prescribing project	Working with the BNSSG Clinical Commissioning Group to increase 'green social prescribing' across the area	Health and wellbeing for all	BNSSG Clinical Commissioning Group	Seafronts and Parks	BNSSG	Short term
Page 133	Great lakes project	Prepare and deliver projects to improve Weston Marine Lake, Clevedon Marine and Lake Grounds, Portishead	Create and maintain valued healthy landscape	North Somerset Council	Seafronts and Parks	Existing revenue budget	Short term
	Grounds maintenance contract management	Ensure that contract is monitored according to the terms of the contract.	Create and maintain valued healthy landscape	North Somerset Council	Seafronts and Parks	Existing revenue budget	Ongoing
	Support community groups with GI improvements	Engage with key community groups, parish council, voluntary sector and private sector organisations who would be able to deliver biodiversity enhancements within their land holdings.	Engage and empower the local community and local groups to be active partners in the delivery of the Action Plan	North Somerset Council	Seafronts and Parks	Existing revenue budget	Ongoing

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
Page 134	Partnership working	Continue to work collaboratively with both local and regional partners and stakeholders in securing and enhancing GI within North Somerset and beyond	Engage and empower the local community and local groups to be active partners in the delivery of the Action Plan	North Somerset Council	Seafronts and Parks	Existing revenue budget	Ongoing

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
Trees and woodlands	Maximise ecosystem services provided by trees	<i>Trees play a key role in a wide range of ecosystem services including addressing the climate and nature emergency, flood mitigation, heat mitigation, public health and well-being, biodiversity, and cultural and spiritual needs. Managing trees responsibly to maximise benefits and reduce risk of harm is a critical aspect of GI management.</i>					
	Increase tree canopy	Increase tree canopy by 25% on North Somerset land and encourage the wider community to increase by 30% overall by 2030. Explore opportunities to increase street tree planting working with the Forest of Avon Trust 'Trees for Climate' programme along with the creation of new woodland areas and improving connectivity. Increase community engagement to promote the importance of tree planting and preservation through	Greater resilience to climate change	North Somerset Council	Natural Environment	Grant funding will be required	Long term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
		volunteer opportunities and projects.					
Page 136	Publish and deliver the Ash dieback action plan	Create a plan by the end of 2021 that details how we will manage ash dieback including the development of a comms plan, work methods, liaising with other landowners, traffic management and recovery. Deliver the ash dieback action plan from 2021.	Create and maintain valued healthy landscape	North Somerset Council	Natural Environment	Budget growth required	Short term
	Delivery of the tree risk management plan	Complete all tasks as identified in the plan on time	Create and maintain valued healthy landscape	North Somerset Council	Natural Environment	Existing revenue budget	Ongoing
	Planning application consultations	In line with NPPF find solutions to incorporate street trees and other tree planting opportunities into design layout and secure the long-term establishment of new trees. Introduce a	Create and maintain sustainable places	North Somerset Council	Natural Environment	Existing revenue budget	Ongoing

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
		Supplementary Planning Documents to promote the protection and retention of existing trees wherever possible within development.					
	New orchard planting	Investigate areas for the creation of new community orchards and/or a Miyawaki/Tiny Forest on council land.	Improved and better-connected ecological networks	North Somerset Council	Natural Environment	Grant funding will be required	Short term
Page 137	Iconic trees; protecting our levels and moors trees	Through the use of s106 funds from National Grid we will identify iconic trees on the levels and moors and protect the most vulnerable with TPOs; provide grants to landowners to bring at risk trees into better management; and support the planting of 1000 trees	Improved and better-connected ecological networks	North Somerset Council	Natural Environment	s106 National Grid	Short term
	Focus tree planting to aid with Natural Flood Management	Working closely with the Flood Risk team and private landowners to increase tree and woodland for riparian habitat, improving water quality and providing natural flood management.	Sustainable water management	North Somerset Council	Natural Environment	Grant funding will be required	Medium term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
Flood risk and water quality		<i>Reducing flood risk is essential to maintain quality of life across North Somerset as is recognising that communities will need to become more resilient in dealing with flood risk. Good water quality is key in improving biodiversity and providing sustainable drinking water.</i>					
	Coastal Asset Management Strategy	Develop a strategy for the management of existing sea defences, both natural and man-made to contribute to the climate resilience of the North Somerset Coast.	Greater resilience to climate change	North Somerset Council	Flood Risk	Existing revenue budget	Short term
	Beach sand recycling and updated Beach Management Plan - Weston super Mare	Update Beach Management Plan for Weston-super-Mare based on available monitoring data and apply for funding to recycle the sand from the Environment Agency.	Greater resilience to climate change	North Somerset Council	Flood Risk	Environment Agency grant funding	Short term
	Shoreline Management Plans Refresh	Collaborate as part of the Severn Estuary Coastal Group and South West Coastal Group on a refresh of the Shoreline Management Plans that seeks to provide greater clarity on existing	Greater resilience to climate change	North Somerset Council	Flood Risk	Existing revenue budget	Short term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
		policy unit and provide a health check on others.					
Page 139	GI opportunities for water - improving the connectivity and quality of GI in North Somerset - see Appendix 4	The GI strategy highlights some specific issues and opportunities for improving blue GI, as well as existing projects, drawing on various sources including: existing Bristol Avon Catchment Partnership (BACP) projects, WFD water quality data, the Nature Recovery Network (NRN) and Environment Agency WWNP (Riparian Woodland Potential and Floodplain Woodland Planting Potential). Working with the Internal Drainage Board for increased raised water level areas, semi-autonomous water level management and improved fish passage through water level management structures.	Sustainable water management	North Somerset Council	Flood Risk	Grant funding will be required	Long term
	Natural Flood Management Pilot Scheme - Burrington Coombe	Investigate the delivery of natural flood management to reduce run-off and slow the	Greater resilience to climate change	North Somerset Council	Flood Risk	Existing revenue budget	Short term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
		flow in the upper catchment to Burrington Coombe.					
	Flood Risk Management Plans update	Collaborate with the Environment Agency on the update of the Flood Risk Management Plans required under the Flood Risk Regulations 2009.	Greater resilience to climate change	North Somerset Council	Flood Risk	Existing revenue budget	Medium term
Page 140	Local Flood Risk Management Strategy update	Start the update of the Local Flood Risk Management Strategy including initial public consultation on the proposals. Embed resilience and adaptation into the strategy and promote the use of green/blue infrastructure and natural flood management. To be completed by December 2022.	Sustainable water management	North Somerset Council	Flood Risk	Existing revenue budget	Short term
	On-site Emergency Flood Plan for Superpond	Prepare On-site Emergency Flood Plan for Superpond required by ministerial guidance published in accordance with the Reservoir Act 1975.	Sustainable water management	North Somerset Council	Flood Risk	s106	Short term

Key Theme	Project name	Project summary	Main GI objective	Lead organisation	Lead North Somerset Council team	Funding source	Timescale
Page 141	Planning application consultations	Encourage the use of natural green features for surface water management and promote climate resilience in new developments. The introduction of Flood, Water and Coastal supplementary planning documents to promote the protection, enhancement and naturalisation of river and watercourse corridors including inappropriate culvert removal through development.	Create and maintain sustainable places	North Somerset Council	Flood Risk	Existing revenue budget	Ongoing

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Appendix 6: funding opportunities for GI

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APPENDIX 1: North Somerset Council Officer Consultation Summary

1.0 Overview

Council officers were asked to complete a consultation exercise as part of the North Somerset Green Infrastructure Strategy preparation.

Firstly, this helped to ensure that the data collected to inform the strategy was as accurate as possible. Officers were therefore able to verify, correct and add data as necessary before this draft was finalised.

The data in this strategy will undergo further scrutiny during the public consultation stage when it is anticipated that individuals, volunteer organisations and National and Regional bodies will contribute further information which will be added to update the document.

Secondly, Officers were also invited to provide their views and share their knowledge on a range of issues including partnerships and projects opportunities; deficiencies & gaps with provision and quality and opportunities to enhance green infrastructure. This exercise helped ensure that this draft document is as aware as possible about issues prior to public consultation, when it is anticipated that further information will be provided by the community to strengthen the strategy's approach.

The following summarises these findings.

2.0 Water and Flood Risk

Partnerships and Projects

- Aspiration for a marine lake at Weston Super Mare for open swimming and other water activities.
- Discussions are ongoing now within the Council and EA around natural flood management across the District.
- LFRMS (local flood risk management strategy) have a list of vulnerable villages where schemes are to be put in place to reduce risk in the future.
- Bristol Avon Catchment Plan
- Wessex Water are developing Drainage Waste Management Plans.
- Flood attenuation scheme at the old airfield new development at Weston Super Mare.
- Natural England's pond projects for GCN district licencing.

Deficiencies & Gaps with provision and quality

- Water quality for invertebrate populations is important, especially sites that aren't SSSIs which are monitored. There is a particular issue with water pollution in Nailsea within existing developments.
- Groundwater quality.

Opportunities to enhance water/blue GI

- Develop a sustainable drainage guide (Bristol example).
- Develop policy statements on maintaining open watercourse and no culverting. Also reducing paving over front gardens to create runoff and flooding (RHS have a guide).
- Need for awareness and financial benefit landowners to sensitivity manage bankside habitats (to protect notable habitats and species especially the water vole). Potentially through targeted ELS schemes and mink trapping projects.

3.0 Open spaces, PROW and the National Cycle Network

Partnerships and Projects

- The England Coastal Path (currently being determined by Secretary of State). Will run from River Avon at Avonmouth to River Axe at Brean Down.
- New project to create open space on the former royal pier hotel in Weston called 'Sea Park'. The Council are currently trying to acquire the land, and the project will feature in the placemaking strategy for Weston.
- Strawberry Line Extension from Yatton to Clevedon (consultation is underway, development and opened in stages as funding is secured).
- Rights of Way Improvement Plan is currently being revised.
- The new development at the old airfield in Weston will have new open space and access routes.

Deficiencies & Gaps with provision and quality

- Always be deficiencies and gaps within PROW network.
- Deficiency of routes for horses and cyclists.
- Too much amenity grassland and that many people would prefer to have accessible natural green spaces.
- More areas should be considered for biodiversity net gain.

Opportunities to enhance open spaces, PROWs and National Cycle Network

- Revised ROWIP and more working with parish councils to reduce gaps in PROW network.
- Create Country Parks to mitigate for areas of development. Hopefully this will include increasing accessibility through PROW network.
- PROW and Countryside parks are a potentially more attractive option over manicured parks.
- Opportunities to plant trees (particularly street trees) and hedgerows along access routes.
- Community Infrastructure Levy, S106, local transport plan, capital funding needs to be sourced to help achieve these future aims especially for larger existing open spaces.
- Lots of opportunities to transform parks and amenity green spaces through establishment of wildflower meadows, priority habitats and rewilding.
- Potential for new developments to include these within the planning stages (needs to be included within the new local plan).

4.0 Biodiversity and Habitats

Partnerships and Projects

- Current rewilding project taking place in existing parks and open spaces. Volunteering heavily involved in the project which is being funded with a lottery grant.
- Worlebury Woods has an outstanding felling licence waiting for review.

Deficiencies & Gaps with provision and quality

- We are in a recognised ecological emergency.
- Farming practices are negatively impacting habitats.
- Lack of priority habitat data.
- Invasive species.
- The priority habitats data is old, and misleading.

Opportunities to enhance biodiversity

- Woodland management, particularly with Ancient Natural Semi Woodland.
- Environmental management schemes that promote late harvesting to protect ground nesting birds and brown hare.
- Mink trapping and landowner liaison to effect positive management of bankside vegetation.
- Landowner liaison to improve hedgerow connectivity between woodlands.
- Consider areas for nursery growing for both plants and trees.
- Undertake an updated BREC

5.0 Food Growing Areas

Partnerships and Projects

- None identified.

Deficiencies & Gaps with provision and quality

- Organic food production is indicated as the most sustainable land use.

Opportunities to enhance food growing

- Good hedgerow boundaries and shelter belts of trees on northern aspects would support a favourable microclimate for crops and pollinating insects.

6.0 Heritage and Landscape

Partnerships and Projects

- Worlebury Camp Hillfort
- Middle Engine Pit
- Banwell Bypass
- The England Coastal Path

Deficiencies & Gaps with provision and quality

- Impact of woodland creation of archaeological remains.

Opportunities to enhance heritage and landscape

- Green spaces and heritage can go hand in hand with preservation and enhancement of heritage assets being beneficial to landscape and public benefit.
- Change of land use/rewilding can be a positive enhancement to the setting of heritage assets.

7.0 Council Owned Land

Partnerships and Projects

- Possible road upgrades on the highway surrounding Bristol Airport and Worle Station.

Opportunities to enhance council owned land

- Lots of opportunities with the rewilding programme being the first step (some public resistance on this).
- Enhancement of botanical interest of grassland through sensitive management.
- New developments on council land should include GI such as swift boxes and hedgehog corridors.

8.0 Third Party Land

Challenges and Opportunities

- Money/funding.
- Lack of education.
- Landowners disinterest especially for PROW (need cash incentive or compensation)
- Opportunities for land management to reduce flood risk.
- Opportunity to create sacrificial wetland areas in strategic locations to capture overland flows and sediment.
- Opportunity to create upland woodland planting to block upland drains/moorland.
- Opportunity to teach good soil management.

Partnerships and Projects

- Hinckley Point
- All housing development should require better landscaping and ecology but there is resistance.
- Tutshill Sluice Cycle Route.
- Natural England GCN project
- Banwell bypass bat project
- England Coastal Path
- Strawberry Line Extension

7.0 Other

What do you think the potential constraints are to enhancing the GI network in North Somerset?

- Education and a lack of incentives to change out of date rural practices.
- Increased development within the District putting pressure on the biodiversity of the area.
- Climate Emergency.
- Funding to identify sites with potential to be restored to priority habitats.

Further Comments

- Would need to ensure that Sustainable Transport in Local Transport Plan is cross referenced in this GI Strategy.

APPENDIX 2: POLICY CONTEXT

1.0 Overview

This appendix provides a review of the most relevant national and local policies and strategies related to the Strategy, which have been considered in developing the methodology and findings of the Study. Policies and strategies are subject to regular change, therefore the summary provided in this section was correct at the time of writing. NSC reserve the right to change and update this section as policies change.

This appendix also includes a summary of IMD and health within North Somerset (Section 5).

2.0 National Context

2.1 National Planning Policy Framework (NPPF) (February 2019) and National Planning Practice Guidance (NPPG).

NPPG is a web-based resource which brings together guidance on various planning topics in one place. It largely draws on the government's planning policies within the NPPF.

The NPPF sets out the Government's planning policies for England and how they should be applied. The NPPF must be adhered to in the preparation of local and neighbourhood plans and is a material consideration in planning decisions.

The concept of green infrastructure (GI) is now firmly embedded in national policy with the NPPF requiring local planning authorities to set out a strategic approach in their Local Plans, planning positively for the creation, protection, enhancement and management of networks of biodiversity and green infrastructure, and providing net gains for biodiversity¹.

The NPPF contains the following references that relate to green infrastructure and open spaces:

- **Para 7** - The purpose of the planning system is to contribute to the achievement of sustainable development. At a very high level, the objective of sustainable development can be summarised as meeting the needs of the present without compromising the ability of future generations to meet their own needs.
- **Para 96** - Access to a network of high-quality open spaces and opportunities for sport and physical activity is important for the health and well-being of communities. Planning policies should be based on robust and up-to-date assessments of the need for open space, sport and recreation facilities (including quantitative or qualitative deficits or surpluses) and opportunities for new provision. Information gained from the assessments should be used to determine what open space, sport and recreational provision is needed, which plans should then seek to accommodate.
- **Para 97** - Existing open space, sports and recreational buildings and land, including playing fields, should not be built on unless:
 - a) an assessment has been undertaken which has clearly shown the open space, buildings or land to be surplus to requirements; or

b) the loss resulting from the proposed development would be replaced by equivalent or better provision in terms of quantity and quality in a suitable location; or

c) the development is for alternative sports and recreational provision, the benefits of which clearly outweigh the loss of the current or former use.

- **Para 98** - Planning policies and decisions should protect and enhance public rights of way and access, including taking opportunities to provide better facilities for users, for example by adding links to existing rights of way networks including National Trails.
- **Para 149** - Plans should take a proactive approach to mitigating and adapting to climate change, taking into account the long-term implications for flood risk, coastal change, water supply, biodiversity and landscapes, and the risk of overheating from rising temperatures. Policies should support appropriate measures to ensure the future resilience of communities and infrastructure to climate change impacts, such as providing space for physical protection measures, or making provision for the possible future relocation of vulnerable development and infrastructure.
- **Para 170** - Planning policies and decisions should contribute to and enhance the natural and local environment by...
- **Para 171** – Plans should.... take a strategic approach to maintaining and enhancing networks of habitats and green infrastructure; and plan for the enhancement of natural capital at a catchment or landscape scale across local authority boundaries.
- **Para 173** – To protect and enhance biodiversity and geodiversity, plans should: a) Identify, map and safeguard components of local wildlife-rich habitats and wider ecological networks, including the hierarchy of international, national and locally designated sites of importance for biodiversity; wildlife corridors and stepping stones that connect them; and areas identified by national and local partnerships for habitat management, enhancement, restoration or creation; and b) promote the conservation, restoration and enhancement of priority habitats, ecological networks and the protection and recovery of priority species; and identify and pursue opportunities for securing measurable net gains for biodiversity.

2.3 Planning for the Future White Paper (August 2020)

The White Paper was launched in August 2020 and sets out the Government's proposals for a reform of England's planning system to streamline and modernise the planning process, bring a new focus to design and sustainability, improve the system of developer contributions to infrastructure, and ensure more land is available for development where it is needed.

The three pillars to the planning reforms are:

- **Pillar One:** Planning for development including proposals to streamline the Local Plan process - The proposals include the introduction of a form of zoning and a new single statutory sustainable development test at plan examination to replace the current legal and soundness tests. Local Plans should identify three types of land – Growth areas suitable for substantial development, Renewal areas suitable for development, and areas that are Protected. The proposals include a digitised application process and a new interactive web-based map standard for planning documents.

- **Pillar Two:** Planning for beautiful and sustainable places – proposals include: a Fast Track for Beauty, where proposals that come forward that comply with pre-established principles of good design are fast tracked through the planning process; amending the NPPF to ensure targets for mitigating and adapting to climate change and maximising environmental benefits is achieved; a simpler framework for assessing environmental impacts; new homes are fit for a zero-carbon future.
- **Pillar Three:** Planning for infrastructure and connected places - proposals include a replacement to the current Section 106 and CIL processes for securing infrastructure contributions from development proposals.

Consultation on the proposals ran from August to October 2020 and is currently being analysed.

2.2 The Natural Environment White Paper (NEWP) The Natural Choice: securing the value of nature (2011)

The White Paper² recognised that a healthy natural environment is the foundation of sustained economic growth, prospering communities and personal wellbeing. It sets out how the value of nature can be mainstreamed across our society by facilitating local action; strengthening the connections between people and nature; creating a green economy and showing leadership in the EU and internationally.

It responds to the 2010 independent review of England’s wildlife sites and ecological network, chaired by Professor Sir John Lawton, which identifies the need for more, better and bigger joined spaces for nature.

2.3 Biodiversity 2020: A strategy for England’s wildlife and ecosystem services, (August 2011)

This biodiversity strategy for England builds on the Natural Environment White Paper and sets out the strategic direction for national biodiversity policy to implement international and EU commitments.

The vision for England is: ‘By 2050 our land and seas will be rich in wildlife, our biodiversity will be valued, conserved, restored, managed sustainably and be more resilient and able to adapt to climate change, providing essential services and delivering benefits for everyone’.

The mission of this strategy is to 'halt overall biodiversity loss, support healthy well-functioning ecosystems and establish coherent ecological networks, with more and better places for nature for the benefit of wildlife and people'. The strategy contains four outcomes to be achieved by the end of 2020. These are:

Habitats and ecosystems on land (including freshwater environments)

By 2020 we will have put in place measures so that biodiversity is maintained and enhanced, further degradation has been halted and where possible, restoration is underway helping to deliver more resilient and coherent ecological networks as well as healthy and well-functioning ecosystems which can deliver multiple benefits for wildlife and people too.

Marine habitats, ecosystems and fisheries

By 2020 we will have put in place measures so that biodiversity is maintained, further degradation has been halted and where possible, restoration is underway, helping deliver good environmental status and our vision of clean, healthy, safe productive and biologically diverse oceans and seas.

Species

By 2020, we will see an overall improvement in the status of our wildlife and will have prevented further human-induced extinctions of known threatened species.

People

By 2020, significantly more people will be engaged in biodiversity issues, aware of its value and taking positive action.

2.4 The 25 Year Environment Plan

This 25 Year Environment Plan (25 YEP) sets out government action to help the natural world regain and retain good health. It aims to deliver cleaner air and water in our cities and rural landscapes, protect threatened species and provide richer wildlife habitats. It calls for an approach to agriculture, forestry, land use and fishing that puts the environment first.

The 25-year goals are:

1. Clean air.
2. Clean and plentiful water.
3. Thriving plants and wildlife.
4. A reduced risk of harm from environmental hazards such as flooding and drought.
5. Using resources from nature more sustainably and efficiently.
6. Enhanced beauty, heritage and engagement with the natural environment.

Actions/policies are identified around six key areas: Using and managing land sustainably; Recovering nature and enhancing the beauty of landscapes; Connecting people with the environment to improve health and wellbeing; Increasing resource efficiency, and reducing pollution and waste; Securing clean, productive and biologically diverse seas and oceans; Protecting and improving the global environment.

The Nature Recovery Network (NRN) is a key policy commitment in the 25 YEP. The NRN will benefit people and wildlife by increasing, improving and joining-up wildlife-rich places across England. It will create or restore 500,000 hectares of wildlife habitat outside protected sites, more effectively linking existing protected sites and landscapes, as well as urban green infrastructure (such as trees, hedgerows, parks, fields, forests) and urban blue infrastructure (such as rainwater tanks, bioswales, rivers, canals, ponds, wetlands, and floodplains). This landscape-scale approach to restoring nature was recently demonstrated by Natural England's recent designation of the Purbeck Heaths National Nature Reserve (NNR) in Dorset.

The forthcoming **Environment Bill (2020)** will place the 25 Year Environment Plan on statutory footing. A key outcome from this will include a requirement for all areas in England

to establish Local Nature Recovery Strategies (LNRs). This will help bring a broad range of groups together – from farmers to businesses to local communities – to deliver priorities for nature recovery at a local and national level. Five local authorities (Cornwall, Buckinghamshire, Greater Manchester, Northumberland and Cumbria) have been selected to set up LNRs pilot studies to help map the most valuable sites and habitats for wildlife in their area and identify where nature can be restored. The pilots will also help kick-start the creation of over a million acres of habitats for wildlife.

2.5 The England Tree Strategy (emerging)

The England Tree Strategy is due to be published in Spring 2021 and will set out policy priorities to deliver the government’s target to plant 30,000 hectares per year across the UK by 2025; and to expand tree cover, support woodland management and increase public engagement with trees and woodlands.

2.6 Space For People: Targeting action for woodland access (May 2017)

Following the well understood benefits of woodland for wellbeing, this Woodland Trust report sets out their Woodland Access Standard, which aspires that:

- no person should live more than 500m from at least one area of accessible woodland of no less than 2ha in size; and
- there should also be at least one area of accessible woodland of no less than 20ha within 4km (8km round trip) of people's homes.

Ideally both standards would be met. However, where it is not possible to meet the 500m threshold, for example in urban areas where there is a lack of available land, then the 4km threshold should be the minimum provided.

The table below has been extracted from Appendix 1 of the report and shows provision of woodland access and population requiring new woodland in North Somerset.

Local Authority	Accessible woods		Inaccessible woods		Woodland creation	
	%of population with access to a 2ha+ wood within 500m	%of population with access to a 20ha+ wood within 4km	% extra population with access to a 2ha+ wood within 500m if existing woods opened	% extra population with access to a 20ha+ wood within 4km if existing woods opened	% population requiring new woodland to be able to access a 2ha+ wood within 500m	% population requiring new woodland to be able to access a 20ha+ wood within 4km
North Somerset	15.3	83.6	30	15.8	54.6	0.5

Access maps applying these standards have been provided in Appendix 3.

2.7 Natural England Accessible Natural Greenspace Standards

ANGSt recommends that everyone, wherever they live, should have an accessible natural greenspace:

- of at least 2 hectares in size, no more than 300 metres (5 minutes walk) from home;
- at least one accessible 20 hectare site within two kilometres of home;
- one accessible 100 hectare site within five kilometres of home; and
- one accessible 500 hectare site within ten kilometres of home; plus
- a minimum of one hectare of statutory Local Nature Reserves per thousand population.

GIS data regarding accessible natural greenspace was not available at the time of writing the strategy.

2.8 Pollinator Strategy (2014)

The Government's National Pollinator Strategy for England (2014) sets out a 10 year plan to help pollinating insects survive and thrive across England. The Strategy outlines actions to support and protect the many pollinating insects which contribute to our food production and the diversity of our environment. It is a shared plan of action which looks to everyone to work together and ensure pollinators' needs are addressed as an integral part of land and habitat management.

In particular the Strategy asks local authorities to take a lead across many of their work areas and duties, including their role in local planning and also as managers of public and amenity spaces, brownfield sites, schools, car parks, roadside verges and roundabouts.

The Strategy vision is: *To see pollinators thrive, so they can carry out their essential service to people of pollinating flowers and crops, while providing other benefits for our native plants, the wider environment, food production and all of us.*

The independent scientific review of the published evidence commissioned by Defra in 2013³, identified the loss of flower-rich habitat as the likely primary cause of the recorded decline in diversity of wild bees and other pollinating insects.

2.9 Living with beauty: Promoting health, wellbeing and sustainable growth (2020)

This report, published by the Building Better, Building Beautiful Commission, recommends how to promote and increase the use of high-quality design for new build homes and neighbourhoods.

The report proposed three aims for the planning system as a whole: Ask for Beauty; Refuse Ugliness; and Promote Stewardship. Beauty is considered at three scales: Beautiful buildings; Beautiful places (of which GI is a key part); and Beautifully placed.

Policy proposals are made in a number of areas, including Nature: re green our towns and cities, which includes:

- Urban development should be part of the wider ecology. Green spaces, waterways and wildlife habitats should be seen as integral to the urban fabric.

- The government should commit to a radical plan to plant two million street trees within five years, create new community orchards, plant a fruit tree for every home and open and restore canals and waterways. This is both right and aligned with the government’s aim to eradicate the UK’s net carbon contribution by 2050. It should do this using the evidence of the best ways to improve well-being and air quality.
- Green spaces should be enclosed and either safely private or clearly public.
- The NPPF should place a greater focus on access to nature and green spaces – both existing and new – for all new and remodelled developments.

2.10 Buglife and B-lines

Buglife is charity with the aim of halting the extinction of invertebrate species and to achieve sustainable populations of invertebrates.

Get Britain Buzzing: a Manifesto for Pollinators (2014)

The Manifesto outlines 7 key principles and 27 actions to arrest the alarming decline in UK pollinator populations. This manifesto highlights the dire state of many of our pollinators and the need to take action now, otherwise our children and grandchildren will not be able to enjoy and rely on the many benefits these species provide. The Manifesto is clear that we need ‘sustainable populations of all pollinators’ and that it is essential to work towards the 7 principles if we are to save and sustain our pollinators. These are:

1. All pollinators valued for the service that they provide.
2. Our pollinator populations properly monitored and understood.
3. Pesticide use that harms pollinators reduced.
4. Wildflower rich landscapes restored – (B-lines established).
5. Declines in rare and threatened pollinator species reversed.
6. Places for pollinators planned around people.
7. Wild pollinators protected from imported parasites and diseases.

B-Lines

The B-Lines Programme is working to develop a network of wildflower-rich areas across the UK helping to support our native pollinators and helping them to move more easily around the country. B-Lines is being developed as a response to recommendations made in Sir John Lawton’s ‘Making Space for Nature’ review; identifying and creating linkages between our key wildlife sites. B-Lines also provides a framework to contribute towards the National Pollinator Strategy.

The B-Lines are being mapped across the UK in partnership with local authorities, Local Nature Partnerships, Statutory Agencies and other conservation partners. B-Lines are identified as 3 km wide linear pathways which link together existing important wildflower-rich areas (e.g. SSSI, Local Wildlife Sites, Local Nature Reserves, nature reserves, BAP habitats) – these habitat areas forming the foundations of the B-Lines network. B-Lines aims to create and restore at least 150,000 hectares of flower-rich habitat across the UK.

The B-lines mapping has been utilised in informing the priorities/opportunities within this GI Strategy.

2.11 National perspectives on the value of open spaces and physical activity to health and wellbeing

The National Institute for Health and Care Excellence (NICE) have pointed out that “physical activity is not only fun and enjoyable, it is essential for good health, helping to prevent or manage over 20 conditions and diseases. This includes heart disease, diabetes, some cancers and obesity. It can also help improve people’s mental health and wellbeing⁴.”

NICE Local Authority Briefing – Public Health

Supporting people of all ages to be more physically active can help local authorities meet their new public health responsibilities. Specifically, it will impact on a range of indicators identified in the public health and the adult social care outcomes frameworks including:

- Use of green space for exercise/health reasons
- Child development
- Excess weight in children and adults
- Proportion of physically active and inactive adults
- Self-reported wellbeing and health-related quality of life
- Falls and injuries in the over-65s
- Mortality from cardiovascular diseases (including heart disease and stroke), cancer and respiratory diseases.

Public Health England has provided a health equity briefing: *Local action on health inequalities: Improving access to green spaces*⁵.

Public Health England – health equity briefing: Local action on health inequalities: Improving access to green spaces. Summary of key points:

- There is significant and growing evidence on the health benefits of access to good quality green spaces. The benefits include better self-rated health; lower body mass index; overweight and obesity levels; improved mental health and wellbeing; increased longevity.
- There is unequal access to green spaces across England. People living in the most deprived areas are less likely to live near green spaces and will therefore have fewer opportunities to experience the health benefits of green space compared with people living in less deprived areas.
- Increasing the use of good quality green space for all social groups is likely to improve health outcomes and reduce health inequalities. It can also bring other benefits such as greater community cohesion and reduced social isolation.
- Local authorities play a vital role in protecting, maintaining and improving local green spaces and can create new areas of green space to improve access for all communities. Such efforts require joint work across different parts of the local authority and beyond, particularly public health, planning, transport and parks and leisure.

3.0 Regional context

3.1 The West of England Nature Partnership (WENP) and Nature Recovery Network (NRN)

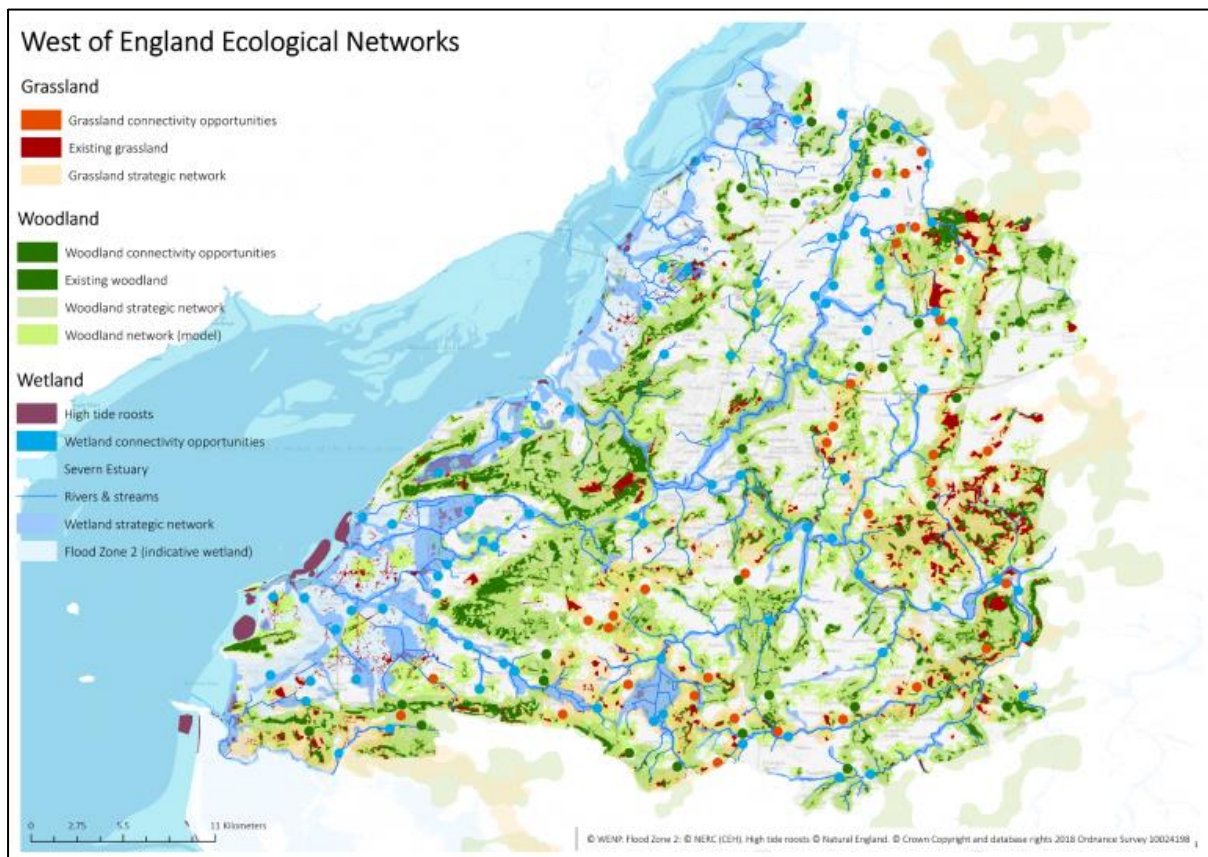
The West of England Nature Partnership (WENP) is a cross-sector partnership working to restore the natural environment in the West of England through embedding the value of nature in decision making across spatial planning, public health and economic development. Established in 2012, WENP is the designated Local Nature Partnership (LNP) for the West of England (Bristol City, South Gloucestershire, North Somerset and Bath and North East Somerset). LNPs are a key commitment from the 2011 Government White Paper, *The Natural Choice: Securing the Value of Nature*, which recognised the need for a more joined-up approach to reverse the loss of biodiversity and degradation of ecosystems.

The vision is of a thriving and well-connected natural environment in the West of England that underpins a healthy and resilient society and economy.

The West of England Nature Partnership (WENP) is working to develop a regional Nature Recovery Network for the West of England, aligning with shared principles developed across the South West (by the South West Local Nature Partnerships) to ensure coherence and strengthened networks across the wider region. This is in accordance with Government’s 25 Year Environment Plan, which includes a commitment to “develop a Nature Recovery Network to protect and restore wildlife and provide opportunities to re-introduce species that we have lost from our countryside.”

WENP’s proposed NRN (mapping), has been used as the basis for identifying key GI assets, corridors and opportunities for improvement within this GI Strategy. The NRN map is intended as a living map, as new mapping tools and principles emerge at the national level. The development and delivery of a NRN plan is the next step in the process.

Figure 14 WENP Proposed Nature Recovery Network



The WoE NRN Ambitions are as follows:

- Create 6,000 hectares of wildlife-rich habitat outside the protected site network by 2050
- Double our semi-natural broadleaved woodland cover by 2050 (from 6% to 12%)
- Close the NRN connectivity gaps with 600 hectares of new native woodland and 700 hectares of new species-rich grassland by 2050
- All water bodies to be in good ecological status and all SSSIs in favourable condition by 2027 (Water Framework Directive)
- At least double the amount of land managed for nature (protected areas and land managed under Environmental Land Management schemes) from 2018 levels by 2050
- All new developments, including strategic projects, achieve at least 10% biodiversity net gain that contributes across these ambitions
- Double the abundance of wildlife from 2018 levels by 2050
- Develop a strong and living evidence base to hold the above ambitions to account and help us make the smartest decisions for nature's recovery

The NRN prospectus (Updated March 2021) aims to bring together programmes and projects in the region that would make a strategic contribution to the NRN. The prospectus is based primarily on existing projects/programmes or project ideas in the region, including those

outlined in the GI Pipeline (contributing to the outcomes of the WoE Joint Green Infrastructure Strategy) and BACP Action Plan.

Key programmes/projects within North Somerset include:

- Strengthen and connect North Somerset Woodland (Failand Ridge Woodland Corridor, Failand-Brockley Wood Link, King’s Wood – Mendip Connection)
- Thriving North Somerset Wetlands (North Somerset Levels and Moors Restoration, Nailsea Wetland)
- Improve quality and quantity of coastal habitat (Marine Improvements and Coastal Natural Flood Defence)
- Improve in-river Connectivity (Waterspace, River Chew Partnership Project)

3.2 West of England Nature Partnership (WENP) Greenspace Classification

This report takes a landscape approach that maps landscape quality. It utilises an approach pioneered in the Greater Manchester area by Dennis et al. (2018) to characterise census reporting units across the West of England into seven ‘greenspace’ types, based upon their composition of land use and land cover, and investigate the distribution of different land use types across the region. These greenspace types differ with respect to their value to wildlife, their accessibility to people, and their capacity to deliver benefits for our mental and physical wellbeing.

It is intended to improve understanding around how greenspaces and other land uses are distributed across the West of England, and thus could be used as an additional piece of evidence in future planning and development of green infrastructure to maximise the benefits provided to nature and to people. The report includes recommendations on how the greenspace types can be used to inform actions to benefit people and wildlife. It is intended to be complementary to the WoE Joint Green Infrastructure Strategy, and existing evidence bases used in planning.

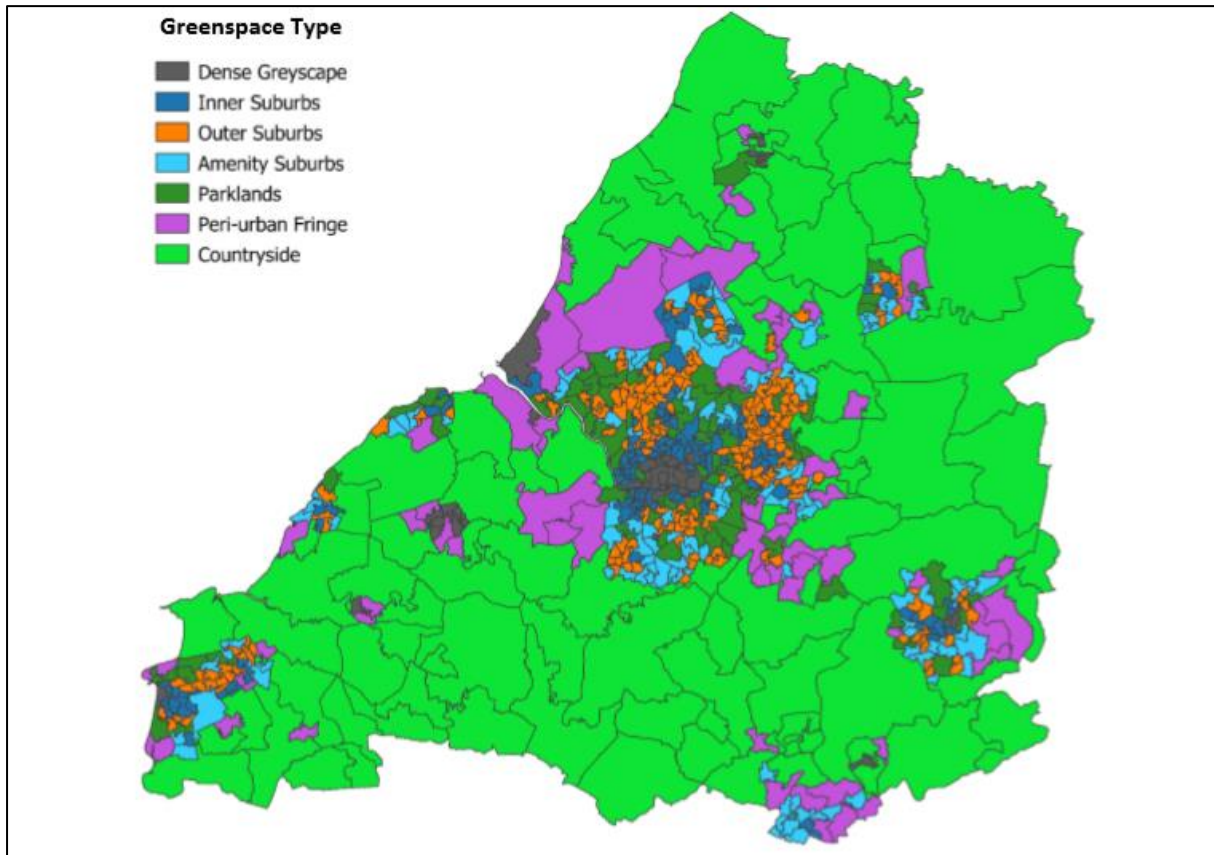
All land in the WoE was mapped into one of the following seven land use categories:

- Amenity – Urban greenspace without a specific function, including riparian land and road verges
- Brownfield – Land that is not currently in use or is undergoing a change in function.
- Gardens – Privately owned gardens.
- Institutional – Privately-owned land belonging to institutions including schools, universities and religious institutions.
- Parks and recreation – Publicly-accessible parks, sports grounds and recreational spaces, also including allotments and cemeteries.
- Rural – Land in rural areas, predominantly farmland but also including forests and any other seminatural areas.
- Urban other – Urban land which is covered by hard surface, including roads, buildings and car parks.

Small geographical areas (Lower Layer Super Output Areas (LSOAs)) in the WoE were then categorised into one of the following seven greenspace types, based upon the relative proportions of the seven land uses within it (shown in Figure 15 below):

- Dense Greyscape
- Inner Suburbs
- Outer Suburbs
- Amenity Suburbs
- Parklands
- Peri-urban Fringe
- Countryside

Figure 15 - map of the LSOAs in the West of England, categorised into greenspace types



The report recommends possible interventions for increasing the benefits delivered by each greenspace type for biodiversity, and human health and wellbeing, as shown in Table 6 below. These interventions provide a good basis for planning and implementing GI improvements, and are set out in the table below:

Table 6 - possible interventions to improve GI by greenspace type for biodiversity, and human health and wellbeing.

Greenspace type	Suggested possible interventions	
	For biodiversity	For human health & wellbeing
Dense Greyscape	Increase number of plants and greenspace using street trees, hanging baskets, planters, rooftop gardens, and pocket parks where possible.	Pocket parks could be used to provide small areas of greenspace in this greenspace type. Any increase in the number of plants and the provision of greenspace is likely to benefit mental and physical health, and may improve local air quality.
Inner Suburbs	Improve management of private gardens for wildlife, especially through communication with the public. Interventions for Dense Greyscape also applicable.	Increase access to publicly accessible greenspaces, which are used for different functions than private gardens, by providing good (active) transport links to existing greenspaces. Interventions for Dense Greyscape also applicable.
Outer Suburbs	Improve management of private gardens for wildlife, especially through communication with the public.	Increase access to publicly accessible greenspaces, which are used for different functions than private gardens, by providing good (active) transport links to existing greenspaces.
Amenity Suburbs	Improve management of private gardens and amenity greenspaces for wildlife. In amenity areas interventions could include letting areas grow wild, mowing grass less frequently, sowing wildflower seeds, and tree planting.	Ensure accessibility of amenity greenspaces, which may not be easily accessed by all members of the community due to poor transport links, cultural barriers etc. Sowing wildflower seeds and tree planting can improve the aesthetic appeal of areas that cannot be directly accessed.

Greenspace type	Suggested possible interventions	
	For biodiversity	For human health & wellbeing
Parklands	Improve management of parks and public recreation spaces by sowing wildflower strips, and increasing the presence hedgerows and small scrub and wooded areas.	Improve the condition of existing parks. Marked jogging/cycling routes and outdoor exercise equipment can increase the value of parks for health. Improvements for biodiversity can also improve the appeal of parks and increase usage. Sufficient lighting could improve safety.
Peri-urban Fringe	Improve the connectivity between urban and rural landscapes through habitat creation and improvement, evidenced by the WoE Nature Recovery Network . Hedgerows could be an effective connection urban areas into rural areas. Fences and walls should be made permeable for non-flying animals.	Ensure there are sufficient paths and public rights of way for people to access the countryside directly from their home by walking, jogging or cycling. Existing rights of way should be clearly marked and protected, while access to the countryside must also be prioritised in new housing developments in the peri-urban fringe locations.
Countryside	The biodiversity value of agricultural land through a variety of interventions including wildflower-rich field margins, hedgerows, joined-up woodland fragments, lower stocking densities etc. Conservation evidence provides evidence-based interventions for farmland (https://www.conservationevidence.com/). The WoE Nature Recovery Network provides an evidence base for increasing connectivity of habitats. National agricultural policy, including the forthcoming Environmental Land Management Schemes, will be important in improving the value of farmland for biodiversity.	As for the peri-urban fringe, clearly marked paths and public rights of way are important for allowing people access to the countryside. Where possible these should pass through woodland and other semi-natural habitat patches, rather than just arable land and pasture. Additionally, the presence of amenity greenspaces can be lacking in rural areas. Improving the provision of these can increase people's use of greenspace.

3.3 West of England (WofE) Joint Green Infrastructure Strategy (JGIS) 2020-2030

The JGIS, led by the West of England Combined Authorities (WECA), is owned by the five authorities – WECA, Bath and North East Somerset, Bristol City, North Somerset and South Gloucestershire councils. It sits alongside and helps facilitate the delivery of other regional and local plans and strategies. These include the Local Industrial Strategy, Joint Local Transport Plan, Local Cycling and Walking Infrastructure Plan, West of England sub regional strategies and local and spatial plans, GI strategies and supplementary planning documents.

The overall aim of the West of England JGIS programme is to secure investment in GI planning and provision, similar to that of other infrastructure. It evidences the need and use of natural solutions to address the climate emergency and declining biodiversity, as well as health and other benefits for people, so that sustained investment in the natural environment and GI can be secured. It also provides mapped data (which includes the WENP proposed Nature

Recovery Network, and 22 GI Areas), which can be used to identify existing GI and opportunities across a range of scales, to support the 8 outcomes set out below.

The following nature-based outcomes are sought as part of an integrated approach to GI in the West of England; Improved and better-connected ecological networks:

- **Improved and better-connected ecological networks:** protect, enhance and expand coherent, thriving and resilient ecological networks that deliver net gains in biodiversity and ecosystem services, including the creation of bigger, better, more and joined-up woodland, grassland and wetland habitats to achieve the ambitions of the West of England Nature Recovery Network.
- **Greater resilience to climate change:** Provide natural solutions to build resilience against the impacts of climate change including use of well-designed Green Infrastructure to stabilise slopes and attenuate flood water, absorb carbon, and increased use of trees to reduce urban heating.
- **Sustainable water management:** Optimise and improve the use of Green Infrastructure to deliver an improved water environment by working with natural processes to help reduce flood risk, manage drought, improve water quality and improving connectivity to reduce the loss and quality of aquatic habitats and wildlife.
- **Health and wellbeing for all:** Improve the network of active travel routes and accessibility to green spaces to support healthy lifestyles and mental wellbeing, and provide more opportunities for people to connect with landscape and nature, and addressing inequalities in provision.
- **Create and maintain sustainable places:** New development which maximises the multiple benefits of Green Infrastructure in delivering resilient, healthy and environmentally friendly places and a net gain in natural capital by investing in Green Infrastructure for the long term.
- **Create and maintain valued healthy landscape:** Design and deliver high quality Green Infrastructure that improves local sense of place and protects and enhances landscape character and the natural, cultural and heritage services that they provide
- **Support sustainable and local food production:** Increase opportunities for local food production in urban and rural areas and increase food sovereignty by, for example, protecting the best and most versatile agricultural land and enhancing our pollinator network.
- **Build a resilient economy:** Create attractive areas for investment and job creation, and support the environmental resilience of economic sites by enhancing Green Infrastructure relating to housing, businesses and other associated infrastructure.

To implement the JGIS and achieve the outcomes the five authorities will apply the following principles:

- **Educate:** Ensure that the multi-functional benefits of Green Infrastructure including contribution to human health and wellbeing are better understood and clearly recognised by authorities, agencies and other partners. Resulting in, increased allocation of funding for GI and a Green Infrastructure focus integrated into the planning and development process, through using the tools and metrics required by national legislation.
- **Embed:** Apply a natural capital approach in accordance with national legislation and guidance to seek to ensure that new development delivers a net gain in natural capital

whilst protecting irreplaceable habitats, and support the maintenance and enhancement of the strategic Green Infrastructure network.

- **Collaborate:** The authorities, agencies and other partners in their delivery of Green Infrastructure across the West of England will ensure early, continuous and effective engagement with each other.
- **Evidence:** Monitor and keep an up-to-date West of England shared Green Infrastructure and biodiversity evidence base.
- **Invest:** Secure investment in Green Infrastructure through the planning process and other delivery and funding mechanisms to deliver strategic Green Infrastructure priorities and its long term stewardship.
- **Communicate:** Promote wider public understanding of GI and natural capital, the benefits it provides and opportunities to enhance Green Infrastructure in the West of England.

3.4 West of England Local Cycling and Walking Plan 2020-2036

This is a collaborative plan between West of England Councils, West of England Combined Authority and local stakeholders, and proposes £411million of capital investment by 2036. The plan proposes improvements to the walking environments with a focus on local high streets, along with improvements to continuous cycle routes. The aim is to provide high quality infrastructure to allow walking and cycling the preferred option for shorter trips and to access public transport.

The vision is that the West England walking and cycling network is the most coherent, accessible and comprehensive in the UK. Behavioral change is one of the main challenges to overcome in order to achieve this vision but there are many opportunities to overcome challenges. Public opinion shows that there is a high level of public support for walking and cycling improvements, and with the COVID-19 pandemic and climate emergencies being declared these improvements are being high within both national and local governments agendas.

The plan sets out different types of the improvements to be made all of which aim to optimize usability and safety whilst at the same time focusing on user needs and improving the built environment. Across North Somerset, the plan highlights 7 walking and 7 cycle improvement routes which are focused on the towns within the area. These improvement routes have fed into the analysis of green infrastructure within North Somerset.

3.5 Joint Transport Plan 4 – West of England 2020-2036

The Joint Transport Plan has been led by the West of England Combined Authority alongside the four local authorities of Bath & North East Somerset, Bristol, North Somerset and South Gloucestershire. It outlines the vision of a well-connected sustainable transport network across the region for residents, businesses and tourists. Its aim is that the network will offer greater and realistic travel choices making walking, cycling and taking public transport a natural way to travel.

The plan aims to ensure that transport is carbon neutral by 2030 which can only be achieved if there is sizeable shift towards cleaner, greener and more sustainable transport. It will also require a change in the way we travel by reducing reliance on the car and changing behavior.

Five objectives outlined are:

1. Take action against climate change and address poor air quality
2. Support sustainable and inclusive economic growth
3. Enable equality and improve accessibility
4. Contribute to better health, wellbeing, safety and security
5. Create better places

Improving connectivity will create a sustainable transport network that offers greater and realistic travel choices. Along with making trips more seamless, faster, cheaper, cleaner and safer.

Along with the broader challenges of becoming a carbon neutral transport network, there are some key challenges specific to the West of England. This includes:

- There is heavy commuting into central Bristol and other radial routes (in relation to North Somerset; A4 Portway, A370 Weston Super Mare).
- Reliability on the car for town centre commuting.
- Bus and rail use is significantly lower than other UK cities and towns.
- Most business-related travel is by road therefore creating delays on the road network.
- Potential clustering of businesses is limited by the transport network.
- Climate change is impacting on the current transport system including flooding and potholes.

To overcome these challenges the joint transport plan sets out five policies.

1. Provide more public transport options and improve service quality
2. Provide more journeys where public transport is not an option.
3. To use appropriate technological advances to influence and better demand such as through connected and autonomous (driverless) vehicles and pay you as you travel (moving away from owning vehicles).
4. Improve the resilience of the network to provide increased reliability.
5. Enable business clustering and the efficient movement of freight.

These policies are then applied at a broad level across the West of England with different interventions to support delivery the policies. At a local level more specific interventions are detailed which have then fed into the analysis of green infrastructure within North Somerset.

3.6 West of England Local Enterprise Partnership and Local Industrial Strategy

The West of England Local Enterprise Partnership supports business growth and is working to attract new jobs to Bristol, Bath and Weston-super-Mare – and the surrounding countryside. One of their key actions is Growing the green economy.

The WoE LEP Strategy aims to boost productivity in the West of England by creating jobs and increase earning power of people with investment in skills, industries and infrastructure. In line with the National Industrial Strategy it will be based on clean growth (carbon neutral), robust evidence including understanding of impact on natural capital and reducing inequalities. There is an opportunity to enhance GI as part of LIS long term sustainable infrastructure investment, supporting the mutual objective of enhancing natural capital.

3.7 The Severn Estuary Partnership and Strategy for the Severn Estuary 2017

In 1995 the Severn Estuary Partnership was formed to provide support to those who have responsibilities or interests in the estuary and to encourage working together to achieve a more integrated approach to the management of the estuary. The Severn Estuary Partnership is an independent, non-statutory organisation which relies on the support and active participation of its members, as well as a range of individuals and other organisations.

The Severn Estuary Strategy was first produced in 2001 and has now been revised in the context of new and emerging legislation, plans, policies and developments. The 2017 Severn Estuary Strategy presents a new Vision and a series of Principles, Objectives, Outcomes and Actions.

The 2017 Severn Estuary Strategy champions an integrated approach to the sustainable use and enjoyment of the Severn Estuary, under 5 key principles:

1. Achieving a Sustainable Marine Economy
2. Ensuring a Strong, Healthy and Just Society
3. Living within Environmental Limits
4. Promoting Good Governance
5. Using Sound Science Responsibly.

The Strategy aims to ensure an integrated approach for marine planning in the Severn Estuary Region and provides context to inform and support decision-making for a wide range of proposed estuary developments.

3.8 Mendip Hills AONB Partnership and Management Plan 2019 - 2024

AONBs and National Parks were brought into being by the 1949 National Parks and Access to the Countryside Act, and have the same status, and level of protection. AONBs are particularly special landscapes, whose distinctive character and natural beauty are so outstanding that it is in the nation's interest to safeguard them.

'The limestone Mendip Hills with the lakes of the Chew Valley is a stunning landscape of steep slopes and undulating plateau punctuated by spectacular gorges and rocky outcrops. On the hilltops there are hundreds of ancient monuments, whilst on steeper slopes flower rich grasslands and wooded combs offer varied habitats for a wide variety of wildlife'.

In recognition of its special qualities the area has been designated as an Area of Outstanding Natural Beauty (AONB).

The AONB Partnership, the advisory body for the Mendip Hills AONB produces the Management Plan, on behalf of its local authority partners; Somerset County Council, Bath and North East Somerset Council, North Somerset Council, Mendip District Council and Sedgemoor District Council.

The Mendip Hills AONB Management Plan (2019) identifies what is necessary to conserve and enhance the special qualities of the landscape and is a ‘material’ consideration in determining planning applications, and at appeals.

Management Plan Vision: The Mendip Hills Area of Outstanding Natural Beauty offers a wealth of opportunities for both people and wildlife and cultural heritage to benefit from the nationally protected landscape. The living landscape conserves and enhances natural beauty, supporting the economy, health and wellbeing of our society.

The Management plan sets out objectives for achieving this vision under 8 themes: Landscape quality; Biodiversity and geodiversity; Historic environment and cultural heritage; Recreation, access and tourism; Natural resources; Land management; Development and Transport; and Participation.

3.9 The Forest of Avon Plan: A Tree and Woodland Strategy for the West of England

The Forest of Avon (FoA) Trust is a charity passionate about the benefits of trees & woodlands and committed to delivering these to people across Bristol & Avon.

The Forest of Avon is part of a national programme of Community Forests (supported within the government’s 25 Year Environment Plan) across England. So far, well over a million trees have been planted in and around Bristol and many woodlands & access networks have been improved.

The Trust have recently secured funding from the West of England Nature Partnership, Bath & North East Somerset Council and the Woodland Trust to produce an updated Forest of Avon Plan/ Tree & Woodland Strategy for the whole of the West of England sub-region (which emerged as a strategic project from the preparation of the West of England (WofE) Joint Green Infrastructure Strategy (JGIS) 2020-2030).

The strategy vision is:

Our vision is of more, better managed and connected trees and woodland making a vital contribution to a thriving natural environment, society and economy in the West of England.

Drawing upon our record of collaborative working and project delivery, we will work together towards an aspiration of doubling the West of England’s semi-natural tree and woodland cover, including open wooded landscape and mosaic habitats, by 2050 – equivalent to an additional 8,000 ha of tree and woodland cover.

The strategy will ensure that action for trees and woodland facilitates delivery of the NRN and JGIS. It sets out a 5 year action plan that provides an initial set of actions and projects that will help deliver the vision and achieve the targets.

It also identifies a number of Strategic Woodland Areas in which tree planting would strengthen the woodland network in the West of England. One of these is the North Somerset Woodlands. The FoA Plan highlights the importance of the existing network of connected woodlands including Leigh Woods, Ashton Court, Priors Wood and Kings Wood and Urchin Wood, but highlights opportunities to reduce fragmentation and gaps. The following priorities have been identified as especially important:

- Strategic woodland creation/expansion and improvements in woodland management along the Failand Ridge to consolidate an important part of the woodland network and better connect ancient woodlands in the area.
- Strategic woodland creation and expansion from north of Flax Bourton to Brockley wood, to strengthen the woodland network and better connect Brockley Wood and King's Wood to the Failand ridge.
- Strategic woodland creation and expansion, including use of hedgerows and tree-lined fields, between King's Wood and woodland in Mendip Hills AONB, west of Blagdon lake, to provide a woodland corridor between the woodland network in North Somerset and the Mendip Hills AONB.

These priority areas are reflected within the opportunities map for woodland in Appendix 4.

In addition, the FoA plan sets out tree and woodland priorities by Landscape Character Area. Priorities for woodlands within North Somerset include (to name a few): ensuring woodlands have a Forestry Commission management plan (or equivalent); ensuring any permitted development considers the conservation and planting of trees within the site; conserving and regenerating hedgerow boundaries and field trees; buffering ASNW and PAWS by establishing fringing areas for natural regeneration; establish native trees and shrubs within greenspaces in Clevedon and Portishead through the rewilding project, working with residents to deliver this; ensuring public access routes are easy to use and follow.

3.10 The Bristol Avon Catchment Partnership (BACP) and Bristol Avon Catchment Plan (2016)

BACP is one of over 100 catchment partnerships across England to support the Catchment Based Approach⁶ which embeds collaborative working at a river catchment scale to deliver cross-cutting improvements to our water environments.

The Bristol Avon Catchment in its entirety drains over 2,800km² of Wiltshire, Gloucestershire and Somerset. The Bristol Avon River flows from the headwaters (near Malmesbury) through many Wiltshire towns and eventually enters into the Severn Estuary via the Avon Gorge. The Catchment also encompasses the North Somerset Coastal Streams and the Lower Severn Vale sub-catchments.

BACP was formed in 2012, bringing together a range of organisations and local communities who work together using the Catchment Based Approach to improve the water environment and provide wider benefits for people and nature at a catchment scale.

Their projects map⁷ provides a summary of catchment projects which are completed, ongoing and proposed, which have helped to inform the opportunities identified within this Strategy.

The Bristol Avon Catchment Plan (2016) has the following vision: *The Bristol Avon Catchment is in good health, has Good Ecological Status and is recognised as a valuable asset to society and the local economy.*

The government aims to ensure all waterbodies in England meet good ecological status by 2027. Any waterbody that does not meet good ecological status is classified as failing under the European Union’s Water Framework Directive.

These are just some of the water-based challenges within the Bristol Avon catchment that can be addressed more effectively by working together:

- Only 11% of the catchment is classified as having ‘good ecological status’ - Although this is typical of other catchments in the UK, it demonstrates the scale of the challenge to meet the Water Framework Directive targets.
- 89% fail to meet the targets - Due to factors including physical modification, phosphate levels, sediment load and low fish populations. Some landowners are losing valuable topsoil, nutrients and pesticides. Due to erosion, run-off or leaching; sometimes linked to poor soil structure and compaction
- Heavy rainfall running off rural and urban areas causes surface water and river flooding in specific locations and Tidal flooding continues to be a threat in the lower reaches of the catchment

4.0 Local Context

4.1 NSC Corporate Plan

North Somerset Council’s overall vision set out within their Corporate Plan (2020-2024) is for ‘An open, fairer, greener North Somerset’.

The Council has three overarching priorities in order to achieve this vision:

- A thriving and sustainable place
- A council which empowers and cares about people
- An open and enabling organisation

This Strategy will help the Council deliver these priorities as follows:

A thriving and sustainable place	How?
A great place for people to live, work and visit	GI helps to create sustainable, biodiverse and attractive places to live – supporting quality of place and quality of life.
Welcoming, safe and clean neighbourhoods	In addition to improving quality of place, GI provides a range of health benefits including providing places for leisure and recreation, and connection with nature. It provides space for communities to come together and take care of the environment around them.
To be a carbon neutral council and area by 2030	GI provides ecosystem services which are essential to tackling the nature and climate emergency. Habitats

	(including woodland, grassland and wetland) both store and capture carbon, mitigate flooding, and can help improve water quality, including through providing stable soils. They also provide and support biodiversity, which is vital to the maintenance of healthy ecosystems and the many ecosystem services that the natural environment provides, and which are fundamental to our survival.
A transport network that promotes active, accessible and low carbon travel	The provision of a connected GI network can help deliver cleaner, greener and more sustainable transport via walking and cycling routes.
An attractive and vibrant place for business investment and sustainable growth	The quality of place is an important influence on inward investment. A healthy and biodiverse natural environment provides many ecosystem services that are essential to sustainable growth e.g. carbon storage and capture, pollination and space for relaxation, recreation and sustainable transport.
A council which empowers and cares about people	Enabling communities to help manage their local green spaces through volunteering opportunities. Creation of a green infrastructure forum to give communities a voice in managing the wider green infrastructure.
A focus on tackling inequalities and improving outcomes	Access to good quality green space in deprived areas has been shown to reduce health inequalities. Evidence shows that living in a greener environment can promote and protect good health, and aid in recovery from illness and help with managing poor health. Greener environments are also associated with better mental health and wellbeing outcomes including reduced levels of depression, anxiety, and fatigue, and enhanced quality of life for both children and adults.
An open and enabling organisation	Our communication and education plan will set out how we will share information relating to green infrastructure and related projects
Engage with and empower our communities	GI provides space for education, connection with nature, green travel, recreation and community cohesion through providing a focal point for activities such as community events, volunteering and informal meeting places.
Manage our resources and invest wisely	Investment in nature based solutions and GI has potential to save on capital and revenue costs, whilst simultaneously providing multiple benefits/ecosystem services.

4.2 Emerging Local Plan

A new Local Plan is being prepared by North Somerset Council to cover the period 2023 - 2038. It will

- Set out how the housing requirement will be met to 2038 through its spatial strategy and allocate sites to fulfil this requirement.
- Incorporate and allocate sites to meet the employment land and infrastructure requirements needed to support economic growth and facilitate housing delivery.
- Allocate sites for other land uses where these are known

- Carry forward from the existing Local Plan documents or update where appropriate, policies and designations for the protection of natural and built environment
- Contain policies to guide the use of land and buildings where planning consent is required in relation to uses including retail, employment, residential, design, flooding, drainage, local waste and minerals, community facilities, transport and infrastructure.

The plan will update and replace the existing Core Strategy (2017), Development Management Plan (2016) and Site Allocations Plan (2018).

4.3 Existing Local Plan

Local planning policy documents prepared by the council comprise the Local Plan which sets out the main policies, and Supplementary Planning Documents (SPDs), which add further detail. The Local Plan currently comprises a number of separate documents which include:

- The North Somerset Core Strategy (2017)
- The Site Allocations Plan (2018)
- The Development Management Policies (2016)

Along with Neighbourhood Plans prepared by parish or town councils, the Local Plan forms part of the Development Plan. Section 38(6) of the Planning and Compulsory Purchase Act stipulates that planning applications must be determined in accordance with the Development Plan unless material considerations indicate otherwise. This gives considerable weight to the documents that comprise it. Supplementary Planning Documents (SPDs) are not part of the Development Plan but carry weight as a material consideration in determining planning applications.

Relevant policies and SPDs from the Council's Local Plan are set out below.

4.3.1 NSC Core Strategy (January 2017)

The Core Strategy sets out the broad long-term vision, objectives and strategic planning policies for North Somerset up to 2026. It focuses on place shaping, creating sustainable communities, health, education and wellbeing.

The role of the Core Strategy and other planning policy documents is to provide the spatial, land-use expression of the shared priorities set out in the Sustainable Community Strategy. In order to create a clear policy framework, the Core Strategy identifies a suite of spatial visions and priority objectives.

Spatial and Area policies are set out which provide the framework for delivering the visions and objectives. Relevant spatial policies include:

CS1: Addressing climate change and carbon reduction

- Includes maximising the use of sustainable transport solutions including walking and cycling, multifunctional green infrastructure, protecting and enhancing biodiversity, opportunities for local food production, resilience to the impacts of climate change e.g. flooding, shading.

CS2: Delivering sustainable design and construction

- Includes reference to Sustainable Drainage Systems

CS3: Environmental impacts and flood risk assessment

- Includes air, water or other environmental pollution or harm to amenity, health or safety and development in zones 2 and 3 of the Environment Agency Flood Map

CS4: Nature conservation

- Includes meeting local and national biodiversity action plan (BAP) targets; maximising benefits to biodiversity and avoiding net loss of biodiversity; protecting connecting and enhancing important habitats; provision and enhancement of green infrastructure; and native tree planting and retention of trees.

CS5: Landscape and the historic environment

- Includes National Character Areas, Landscape Character Assessment and Mendip Hills AONB and heritage assets.

CS6: North Somerset's Green Belt

- Within North Somerset the boundaries of the Bristol – Bath Green Belt will remain unchanged during the plan period.

CS9: Green infrastructure

- Includes Protection and enhancement of GI (existing and new provision), ensuring it is multifunctional and accessible. Priority given to formal parks and gardens; protection and planting of trees and woodlands in urban areas; the promotion of the north slopes of the Mendip Hills AONB as sub-regional corridors for biodiversity, recreation and landscape retention; the promotion of the Congresbury Yeo, River Banwell, North Somerset Levels and Moors, and Grumblepill Rhyne as local corridors for biodiversity and landscape enhancement; the protection and enhancement of biodiversity; the connection of disjointed woodlands, particularly ancient and semi- natural woodland, such as those around the Wraxall/Failand ridge; the continued development of a network of green spaces, water bodies, paths and cycleways and bridleways in and around the urban areas, recognising the value of sustainable drainage systems for green infrastructure; the management, maintenance, upgrading and extension of the public rights of way network including improved connectivity to areas of green infrastructure within and outside North Somerset; the provision of strategically significant green spaces in association with all areas of development.

CS10: Transportation and movement

- Includes enhancing facilities for pedestrians, including those with reduced mobility, and other users such as cyclists and reducing the adverse environmental impacts of transport and contribute towards carbon reduction.

CS12: Achieving high quality design and place-making

- High quality architecture and urban design will be sought from development demonstrating a robust design process to generate solutions that have clearly considered the existing context, and contribute to social, economic and environmental sustainability

CS14: Distribution of new housing

CS26: Supporting healthy living and the provision of health care facilities

- Includes encouraging development that promotes active living through creating places that are easily accessible, attractive and safe to move around by walking or cycling; Promoting healthy lifestyles by addressing existing deficiencies in provision, and aiming to improve the quality and quantity of sports facilities, playing pitches and children's play spaces throughout the district and access to them; and encouraging development which

incorporates, or is within walking distance, from attractive, usable green public open space and contributes to enhancing the green infrastructure network.

CS27: Sport, recreation and community facilities

Where the local provision of sport, recreation, children's play and other community facilities arising from new residential development are inadequate to meet projected needs and standards, additional provision in safe and accessible locations will be sought to meet any identified shortfall. This provision may be in the form of on site provision or the enhancement/improved access to existing facilities.

Existing facilities will be safeguarded from alternative use unless suitable alternative facilities can be made available or the existing facilities are surplus to requirements.

On large scale developments facilities will be provided in step with population growth and will be designed as an integral part of the development.

4.3.2 NSC Development Management Policies – Sites and Policies Plan Part 1 (July 2016)

The Sites and Policies Plan brings forward the detailed development plan policies which complement the strategic context set out in the Core Strategy.

There are many relevant policies in the plan, the main one being Policy DM19: Green Infrastructure. This policy aims to ensure new development contributes to the safeguarding, improvement and further provision of North Somerset's green infrastructure and that the provision of multi-functional, inter-connected and adaptable green infrastructure is taken into account in the design and layout of new development proposals. It refers to the Development Contributions: Planning Obligations Supplementary Planning Document SPD (which provides more detailed information on community sport, leisure facilities and GI requirements) and the Biodiversity and Trees SPD, which are considered below.

4.3.3 North Somerset and Mendip Bats Special Area of Conservation (SAC) Guidance on Development SPD (January 2018)

The SPD contains guidance on development regarding impacts on the North Somerset and Mendip Bats Special Area of Conservation (SAC), one of four European sites (sites of international importance for wildlife) in North Somerset. It was designated because of its importance for Greater and Lesser Horseshoe Bats.

The SAC itself comprises component SSSIs which in North Somerset include, for example, the two maternity roosts at the Brockley Hall Stables SSSI and King's Wood SSSI, and also hibernation roosts like the Banwell Bone Caves and, in Somerset, the maternity and hibernation roosts in the Cheddar Complex SSSI and the hibernation roosts at Wookey Hole SSSI. However, the landscapes around the SAC itself are also important in providing foraging habitat needed to maintain the favourable conservation status of the horseshoe bats. Therefore, the guidance sets out strong requirements for consultation, survey information and appropriate mitigation, to demonstrate that development proposals will not adversely impact on the designated bat populations.

The guidance identifies the Juvenile Sustenance Zones of 1 kilometre (km) around the maternity roosts. New build development on green field sites should be avoided in the

Juvenile Sustenance Zones (JSZs) in view of their sensitivity and importance as suitable habitat as foraging areas for young bats, being within 1km of maternity roosts for Greater Horseshoe bats and 600 metres for Lesser Horseshoe bats.

The guidance also identifies the “Bat Consultation Zone” where horseshoe bats may be found, divided into bands A, B and C, reflecting the likely importance of the habitat for the bats and proximity to maternity and other roosts. Within the Consultation Zone development is likely to be subject to particular requirements, depending on the sensitivity of the site. Within bands A or B of the Consultation Zone, proposals with the potential to affect features important to bats should be discussed with the local authority and/or Natural England as necessary. Within band C developers should take advice from their consultant ecologist.

The SPD also sets out the survey and mitigation requirements for proposals within the Bat Consultation Zone.

North Somerset and Mendip Bats SAC Radio Tracking project (2020)

North Somerset Council have commissioned a bat radio tracking project, to gather information relating to horseshoe bat populations in order to complete Habitat Regulations Assessments (HRAs) and to determine impacts on the North Somerset and Mendip Bats SAC. It will also inform on-site and off-site avoidance, mitigation, compensation and enhancement measures, and the findings will be used to update the current North Somerset and Mendip Bats SAC Guidance SPD, and will be an important factor in decision making in relation to GI.

4.3.4 Development Contributions Supplementary Planning Document (SPD) (January 2016)

This SPD provides more detailed guidance on the principles and operation of development contributions to support Core Strategy Policy CS34: Infrastructure delivery and development contributions.

Section 3 of the SPD sets out the requirement for sports, leisure and community facilities which includes children’s and youth play spaces and playing pitches. The requirements for these are set out below:

Facility	Ratio	Distance Threshold
Multi-Use Games Area (MUGA)	One 35m x 24 MUGA per 5,000 people	10 minutes’ walk
Children’s play	One play area with at least six items of equipment per 2,500 people.	15 minutes’ walk.
Adult football pitches	One pitch per 1,750 people aged 16 – 45	10 minutes’ drive.
Junior football pitches	One pitch per 300 people aged 10 – 15.	10 minutes’ drive
Mini-soccer pitches	One pitch per 200 x 6 – 9 year olds.	10 minutes’ drive
Cricket pitches / artificial wickets	One pitch per 2,600 people aged 11 - 55	15 minutes’ drive.

Rugby pitches	One pitch per 2,000 people aged 6 – 45	20 minutes' drive.
Hockey pitches	One synthetic turf pitch per 12,000 people aged 16 – 45.	20 minutes' drive

Strategic provision such as skate parks and golf courses are considered on a case-by-case basis.

Section 8 of the SPD sets out the standards of green infrastructure provision required in North Somerset. The provision of on-site and off-site provision for developments that come forward will be assessed against these standards, taking into account any existing provision in the area. These are as follows:

Type of space	Minimum m2 required per person	Maximum distance (m) straight line from any property
Formal parks and public gardens (urban)	2.5	n/a
Formal parks and public gardens (rural)	1.0	n/a
Community Parks	6.0	600
Neighbourhood Open Space	6.0	480
Woodland	10.0	n/a
Conservation sites (urban)	7.5	n/a
Conservation sites (rural)	12.0	n/a
Green corridors	Will be assessed at design stage	
Allotments	2.5	1000

The evidence for green infrastructure need and supply was compiled through:

- An extensive survey of the perceptions of North Somerset residents in relation to the parks and open spaces maintained by NSC.
- Parish and town council consultation on the adequacy of provision for green spaces.
- An independent report⁸ on the quality of open space which identified deficiencies for each typology and where there are shortfalls in supply.

The SPD recognises that allowing for the provision of green space within new housing developments is vital in delivering a wider range of benefits to residents and the environment. Developers are encouraged to design residential developments around Parks and Green Spaces, to plan and where possible construct open space provision first and develop the built environment around this. Developers will also need to consider providing multi-functional spaces that can enable other requirements, such as the provision of sustainable drainage systems, renewable energy sources, and climate change amelioration to be met.

4.3.5 Biodiversity and Trees SPD (December 2005)

This SPD aims to encourage design for biodiversity gain alongside new development, both within the building design and the adjoining open spaces.

It seeks to further the actions of the national, regional and local Biodiversity Action Plans. Action for Nature is the Biodiversity Action Plan for North Somerset.

The habitat action plans in Action for Nature are:

- Woodlands
- boundaries and linear features
- Species-rich grasslands
- Fen, marsh and swamp
- Coastal and floodplain grazing marsh
- Standing open water
- Rivers and Field streams
- Estuary
- Urban
- Traditional orchards

The species action plans in Action for Nature include:

- Otter
- Water vole
- Greater horseshoe bat
- Water shrew

Planning applicants must satisfy the council that development can be successfully reconciled with the interests of the biodiversity as well as the amenity of the trees on the site and its surroundings. The proposal should be planned so that existing habitats, species and 'wildlife corridors' are protected and there is no net loss to the biodiversity resource. In addition, specific works or measures to conserve, protect and / or benefit the species or habitats present, as well as provision for future management, may need to be agreed between developers and the council.

4.3.6 Landscape Character Assessment SPD (September 2018)

The main purpose of this assessment is to document the current status of the North Somerset landscape, furthering the understanding of the landscape resource available in the area and giving an indication of areas in need of enhancement and of conservation.

11 different landscape types (A to L in table below) are identified, which are subdivided into component landscape character areas.

Table 7 North Somerset Landscape Categories

Landscape Character Types	Landscape Character Areas
A. Moors	
	A1. Kingstone Seymour and Puxton Moors
	A2. Clapton Moor
	A3. Kenn and Tickenham Moors
	A4. Locking and Banwell Moors
	A5. Bleadon Moor
B. River Flood Plain	
	B1. Land Yeo, Kenn River and River Avon Flood Plain
	B2. Lox Yeo River Flood Plain
C. Settled Coastal Edge	
	C1. Weston Bay Settled Coastal Edge
	C2. Portbury Settled Coastal Edge
D. Limestone Gorges	
	D1. Avon Gorge
E. Limestone Ridges and Combes	
	E1. Mendip Ridges and Combes
	E2. Worlebury Ridges and Combes
	E3. Middlehope Ridges and Combes
	E4. Portishead Ridges and Combes
	E5. Tickenham Ridges and Combes
	E6. Cleeve Ridges and Combes
F. Sandstone Uplands	
	F1. Abbots Leigh Sandstone Uplands
G. Settled Limestone Plateau	
	G1. Broadfield Down Settled Limestone Plateau
	G2. Failand Settled Limestone Plateau
H. Settled Hills	
	H1. Dundry Hill
J. Rolling Valley Farmland	
	J1. Lox Yeo Rolling Valley Farmland
	J2. River Yeo Rolling Valley Farmland
	J3. Chew Rolling Valley Farmland
	J4. Colliters Brook Rolling Valley Farmland
	J5. Land Yeo Rolling Valley Farmland
	J6. Avon Rolling Valley Farmland
K. Farmed Coal Measures	
	K1. Nailsea Farmed Coal Measures
L. Inter-tidal Bays	
	L1. Weston Bay
	L2. Sand Bay
	L3. Woodspring Bay
	L4. Clevedon-Portishead Bays

Chapter 3 of the report provides an overview of ecological characteristics across the area that relate to their underlying physical environment.

Ecological Character is identified within Natural England National Character Area profiles (NCAs). There are four NCAs within North Somerset highlighting the variety of habitat types within the district. These are the:

- Somerset Levels and Moors;
- Mendip Hills;
- Bristol, Avon Valleys and Ridges; and
- Severn and Avon Vales.

The landscape of North Somerset is highly varied, with open moors and river flood plains contrasting with ridges, gorges and rolling farmland. In the north of the district there are a large number of Registered Parks and Gardens and extensive woodland, which in combination with the varied topography limits visibility. Elsewhere in the district tree cover is concentrated on the slopes of hills and ridges, and long-distance views are available from areas of high topography across the open moors and flood plains.

4.4 North Somerset climate emergency strategy and action plan

The Council's Climate Emergency Strategy is a live document which outlines seven key principles for how they will address the causes and consequences of climate change, with the aim to be a carbon neutral council and a carbon neutral area by 2030. The Strategy links in with the Corporate Plan, the Medium-Term Financial Plan, and other strategic plans including the Economic Plan and the Joint Local Transport Plan.

The seven key principles are:

- Become a net zero carbon council;
- An energy efficient built environment;
- Renewable energy generation;
- Repair, reuse, reduce and recycle;
- Replenish our carbon stores;
- Reduce emissions from transport;
- Adapting to climate change.

The Action Plan is aligned to these seven principles, and the achievement of actions is measured on a Data Dashboard.

While reducing carbon from fossil fuels is the Council's priority for tackling the climate emergency, it is also necessary to find ways to increase carbon absorption or sequestration by the natural environment, by for example tree planting, peatland restoration, different methods of land management and improved agricultural practices that enable carbon to be drawn down into the soil on a large scale, of which this GI Strategy will facilitate.

A Nature emergency has since been declared and these two issues are now combined to 'tackle the climate and nature emergencies'. This extends the Council's focus to:

- Recognise the ongoing consultation regarding the new local plan, but one of the aims of the local plan should be to achieve a biodiversity net gain

- Use existing planning policy and development management to ensure biodiversity is improved, environments enriched, and the destruction of habitats is resisted when development occurs. This could be achieved through development of a new Supplementary Planning Document (SPD)
- Seek to work actively with partners locally in North Somerset, regionally in the West of England and beyond to drive collaborative action to improve biodiversity
- Identify areas within North Somerset which could be suitable for habitat restoration and seek to restore them through the council’s emerging Green Infrastructure Strategy, due in 2021
- Seek opportunities to promote local produce and reduce the intensity of agriculture of North Somerset through engagement with businesses and farmers
- Encourage residents, businesses and landowners to reduce pesticide use, and seek to become a pesticide-free council
- Continue to collaborate with our communities, businesses and other organisations such as schools and colleges to improve ecological knowledge and understanding and to encourage more sensitive land management.

4.5 Rights of Way Improvement Plan (2007-2017)

The North Somerset Rights of Way Improvement Plan aims to improve the rights of way network to meet the needs of the identified users. It will help guide development to safeguard and improve the network and align with other strategies and funding bids.

The strategy identifies that a range of users access the rights of way across North Somerset, these include walkers, cyclists, equestrians, drivers of motor vehicles on unsealed roads and people with a range of impairments. All these have needs which the rights of way network need to satisfy. Currently, most of the network can only be used by people on foot or people dependent on mobility vehicles. For cyclists and horse riders the network is small and fragmented leaving them to use lanes or roads. There is also limited provision of routes that can be used by the public with mobility and other impairments.

Through consultation and research, the plan has identified the following shortfalls within the current network:

Table 8 - Shortfalls identified within the North Somerset ROWIP

User	Shortfalls
Casual walkers	<ul style="list-style-type: none"> • Need to reduce obstructions, improve signage and surfacing to increase ease of use. • More publicity/promotion/way marking.
Walkers with dogs	<ul style="list-style-type: none"> • Greater education about responsible behaviour and risk to livestock. • Need for dog friendly routes/areas • Need for routes with suitable facilities
Ramblers	<ul style="list-style-type: none"> • Need to increase ease of use. • More publicity/promotion.

Cyclists	<ul style="list-style-type: none"> • Lack of rights of way for cyclists and small amount of permissive routes. • Poor connectivity • Inadequate information
Multi-user routes (walkers and cyclists)	<ul style="list-style-type: none"> • Does the network have sufficient links between trip generators – home, schools, shops, places of work?
Horse riders	<ul style="list-style-type: none"> • A small percentage of rights of way are available for horse riders, and very little permissive. • Poor connectivity. • Inadequate information.
Carriage drives	<ul style="list-style-type: none"> • Small length of routes publicly available. • Poorly connected
Off-road motorists	<ul style="list-style-type: none"> • No provision.
Mobility, visually and other impaired users	<ul style="list-style-type: none"> • Limited percentage of network available. • Insufficient targeted information provided.
Non-users	<ul style="list-style-type: none"> • Insufficient targeted information provided.

To target these shortfalls, the plan identifies four action plan areas these are:

1. Vision and culture – having the right approach.
2. Working practices and processes – having the right tools
3. Services and facilities – doing the right thing.
4. Communication and education – publishing the right information.

This Rights of Way Improvement Plan is currently being rewritten. The Council’s aim is to identify a new approach to managing the local rights of way network – with the aim of better providing what people want rather than only focusing on satisfying statutory duties. NSC will produce a 10 year plan which will look to addressing current restrictions on the 860 km of network such as installing furniture which is less restrictive where possible, identifying routes which could be improved and identifying missing links in the network.

As part of the revision of the plan, consultation with Parish Councils asking for routes which are important to them has been undertaken in the hope that routes which are missing from the network or could be upgraded to allow greater use by all have been identified. Such improvements could be:

- Over the next ten years to seek to remove all stiles, subject to landowner agreement, from the network.
- To ensure, subject to landowner agreement, that all fitted furniture meets the needs of all users.
- Identify missing links in the network, seek landowner acceptance and implement establishment.
- Consider upgrading routes which are currently footpaths to a minimum status of bridleway for the use of Horse riders and cyclist

Nominations which have been submitted by Parish Councils which are considered suitable will be identified within the revised plan and this will assist applications when resources are sought.

4.6 North Somerset's Economic Plan

The Economic Plan sets out 16 commitments we are making to our businesses and residents to help residents experiencing exacerbated deprivation due to the impact of the pandemic. Job losses, business closures, reduced access to digital learning or reskilling courses must be addressed to lessen the impact felt by our vulnerable communities.

It also aims to respond to the changes we've all had to make to the way we live and work and the opportunities that has created. Economic and financial values will remain a core priority in our recovery, but the lockdown has also highlighted a different set of values. Community, connectivity and wellbeing, as well as a healthy and sustainable environment, are now much more prominent drivers for decision-makers.

In response, the Council is prioritising economic renewal activity around three key pillars:

- Providing inclusive growth and wellbeing for North Somerset people.
- Delivering digital access for all.
- Supporting green business and low carbon activities

The 16 commitments are:

- Full fibre and 5G: Ensure next-generation digital connectivity and telecommunications technology is supplied into premises, workplaces and homes.
- North Somerset Local Plan: Develop evidence led economic input into the new Local Plan to deliver mixed and sustainable communities with new homes, jobs and infrastructure.
- Town centre transformation: Encourage our town centres to become thriving places to live, work and enjoy.
- Tech adoption: Ensure businesses can adopt digital technology and maximise the benefits.
- Mobility as a service: Develop wider access to on-demand transport, mobility services and carbon-efficient local delivery solutions.
- Low carbon inward investment: Grow North Somerset's green economy by working in partnership with regional inward investment organisations and working with residents to access skills to support the sector.
- Infrastructure for local working: Provide digital infrastructure and facilities for local working so that our places can realise the maximum opportunities of distributed and flexible working.
- Retrofitting buildings, community energy, renewable energy and carbon reduction: Maximise benefits of energy efficiency schemes by ensuring local people have the right skills to make the most of the job opportunities.
- Employment and skills strategy: Focused activity around opportunities for those who have lost their jobs and are disenfranchised from the labour market, combined with

the provision of opportunities to reskill, upskill and deliver access to further and higher education.

- Strategic employment sites: Protect jobs and deliver sustainable activity which retains positive outcomes within the economy and benefits local employment, businesses and communities.
- Visitor economy action plan: Deliver a plan which prioritises the promotion and growth of environmentally friendly holidays, and targeted support to improve the quality and diversity of our visitor economy.
- Creative industries action plan: Deliver a plan which prioritises sustainability throughout the supply chain, makes the case for investment and nurtures talent.
- Enhanced business support programme: Commission a universal prestart, early growth and business resilience service and support Small and Medium Sizes Enterprises to develop inclusive practices into their business models, such as employee ownership.
- Voluntary, community and social enterprise: Work with the sector to help them demonstrate the positive impact they have on the economy and jointly make the case for increased investment.
- J21 enterprise area: Directly invest and seek investment to help the creation of jobs.
- West of England working: Prioritise regional partnerships to ensure maximum impact across the West of England to grow businesses, protect and create jobs

This GI Strategy is relevant to many of these commitments by supporting the foundations of business by helping to make the area a more attractive place to invest in.

4.7 Placemaking Strategy for Weston-super-Mare

The strategy sets out a 10 year vision and ambitions for the town with a concrete plan to help Weston become a healthier, greener and more prosperous place to live, work and enjoy.

The Placemaking Strategy helped to attract a £1.7m Government grant, which will fund Weston General Stores, a project focusing on re-purposing vacant retail space in the town centre. This will create space for people to work in the town centre, particularly if they no longer need to commute into an office.

4.8 NSC Strategic Flood Risk Assessment

The North Somerset Strategic Flood Risk Assessment (SFRA) outlines the approach to identifying suitable development sites that are at a lower risk of flooding by applying the sequential and exception tests. By using the SFRA to consider flood risk in relationship to the type of development good design can be promoted. **The Local Flood Risk Management Strategy (LFRMS)** is a further key document identifying the vulnerable locations to flooding and providing both policy and action plans.

5.0 Health and Deprivation Context

5.1 Public Health England

Public Health England have published the 2019 Health Profile for North Somerset⁹.

In summary, the health of people in North Somerset is varied compared with the England average. About 12.6% (4,625) children live in low income families. Life expectancy for women is higher than the England average. Life expectancy is 9.7 years lower for men and 9.6 years lower for women in the most deprived areas of North Somerset than in the least deprived areas.

5.2 Indices of Multiple Deprivation

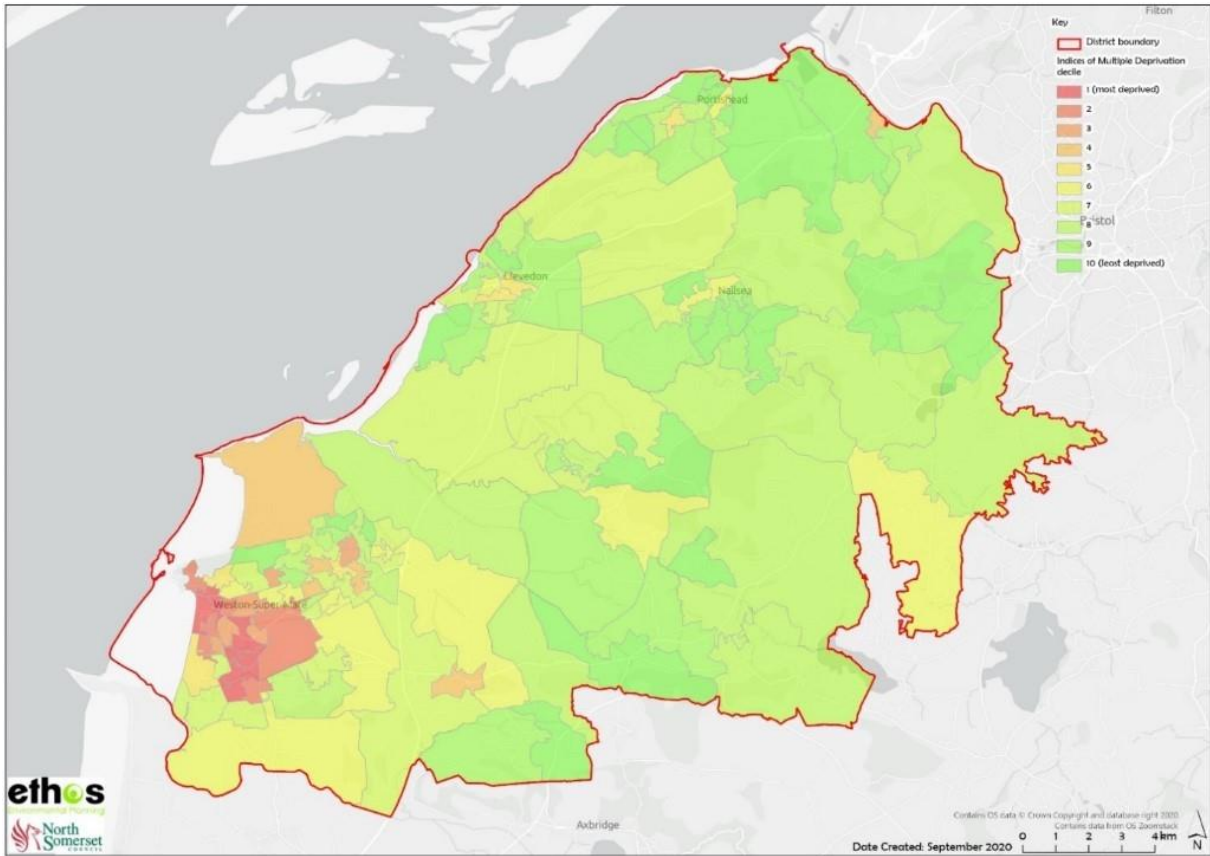
The Indices of Deprivation 2019 provide a set of relative measures of deprivation for small areas (Lower-layer Super Output Areas) across England, based on seven different domains of deprivation:

- Income Deprivation
- Employment Deprivation
- Education, Skills and Training Deprivation
- Health Deprivation and Disability
- Crime
- Barriers to Housing and Services
- Living Environment Deprivation

The Index of Multiple Deprivation (IMD) combines information from the seven domains to produce an overall relative measure of deprivation.

Figure 16 below shows the IMD deciles for each LSOA within the Study Area, where 1 is most deprived and 10 is least deprived.

Figure 16 Index of Multiple Deprivation in North Somerset



As can be seen, the levels of deprivation within North Somerset are generally low. However, relatively large parts of Weston-super-Mare have high levels of deprivation. Improving access to quality green space has the potential to improve health outcomes for the whole population. However, this is particularly true for disadvantaged communities, who appear to accrue an even greater health benefit from living in a greener environment. This means that green space also can be an important tool in the ambition to increase healthy life expectancy and narrow the gap between the life chances of the richest and poorest in society¹⁰.

APPENDIX 3: GI DATASETS AND MAPS BY THEME

This appendix sets out the Geographic Information System (GIS) datasets that have been used to map strategic GI within North Somerset (July 2020) and also provides maps showing the breakdown of GI by each of the following themes:

- Water/Blue GI
- Biodiversity and Habitats
- Open Space and Access Routes
- Food growing
- Heritage and Landscape.

Table 9 below provides a list of all the GIS datasets used by theme, and how each theme links to the Strategy Objectives.

Table 9 - GIS datasets used in the mapping of strategic GI, by theme and linked to WoE JGIS

Theme	Datasets	Data Owner	Data Format	Link to Objectives
Water/Blue GI	Nature Recovery Network (NRN) Wetland	WENP	Shapefile	Sustainable water management
	Groundwater Status	WFD	Hosted Feature Service	Greater resilience to climate change
	Operational Sub-Catchments	WFD	Hosted Feature Service	
	Hydrological Sub-catchments	WFD	Hosted Feature Service	
	Potential Barriers to Fish Migration	WFD	Shapefile	Improved and better-connected ecological networks
	WWNP Floodplain Reconnection Potential	EA	Hosted Feature Service	
	WWNP Riparian Woodland Potential	EA	Hosted Feature Service	
	WWNP Floodplain Woodland Potential	EA	Hosted Feature Service	Build a resilient economy
	Flood Zones 2 and 3	EA	Hosted Feature Service	
	Runoff Attenuation Features	EA	Hosted Feature Service	
	Flood Defences	EA	Hosted Feature Service	
	Flood Storage Areas	EA	Hosted Feature Service	
	1 in 30 Year Flood Extent	EA	Hosted Feature Service	
	Source Protection Zones	EA	Hosted Feature Service	
	Surface Water	Ordnance Survey	Geopackage (Zoomstack)	

Theme	Datasets	Data Owner	Data Format	Link to Objectives
	Main and Minor Waterways	Ordnance Survey	Geodatabase (OS Open Rivers)	
Open Space and Access Routes	National Cycle Network CRoW - Section 4 Conclusive Registered Common Land Open Greenspace Local Nature Reserves (England) National Nature Reserves National Trust Land - Always Open NRN Greenspace Access Catchments Council Owned Accessible Land Public Rights of Way Woodland Trust accessible woodland Forest of Avon Community Forest Path	Sustrans Natural England Ordnance Survey Natural England Natural England National Trust WENP NS Council NS Council Woodland Trust and Forestry Commission GPS-routes.co.uk	Shapefile Hosted Feature Service Hosted Feature Service Hosted Feature Service Hosted Feature Service Hosted Feature Service Shapefile Shapefile Shapefile Shapefile GPX File	Health and wellbeing for all Create and maintain sustainable places Build a resilient economy
Food growing areas	Traditional Orchards HAP (provisional) Open Greenspace (Allotments/Community Food Growing) Corine Land Cover Map 2018 (Non-irrigated Arable Land) Higher level Environmental Stewardship Scheme Agreements Agricultural Land Classification Grades - Post 1988	Natural England Ordnance Survey Corine Natural England Natural England	Hosted Feature Service Hosted Feature Service Geodatabase Hosted Feature Service Hosted Feature Service	Support sustainable and local food production Build a resilient economy
Biodiversity and Habitats	NRN Ancient Woodland NRN Woodland Local Wildlife Sites Rewilding Areas National Tree Map B-Lines	WENP WENP NS Council NS Council Bluesky Buglife Natural England	Shapefile Shapefile Shapefile Shapefile Shapefile Shapefile Hosted Feature Service	Improved and better-connected ecological networks Greater resilience to climate change

Theme	Datasets	Data Owner	Data Format	Link to Objectives
	Ancient Woodlands (England) ⁵⁶ Ancient Tree Inventory GCN District Licensing Local Nature Reserves National Nature Reserves SSSI Special Protection Areas Special Areas of Conservation Habitat Network (Combined) Priority Habitat Inventory Dormouse Records NSC Bat SAC Consultation Zones Broad habitat type/OSM Land Use	Woodland Trust Natural England Natural England Natural England Natural England Natural England Natural England Natural England Natural England Natural England NBN NS Council OSM Landuse	CSV Hosted Feature Service Hosted Feature Service Hosted Feature Service Hosted Feature Service Hosted Feature Service Hosted Feature Service Hosted Feature Service Hosted Feature Service Shapefile Shapefile GeoTiff	Create and maintain valued healthy landscape
Heritage and Landscape	Landscape Character Assessment National Trust Open Data: Land National Character Areas AONB Historic Parks and Gardens Scheduled Monuments Unregistered Parks and Gardens Listed Weirs and Mills Conservation Areas Monuments Avon Community Forest boundary N.b. Ancient trees and woodlands can also be considered as heritage assets, and the mapping for these is included under the Biodiversity theme.	NSC National Trust Natural England Natural England Historic England Historic England NS Council NS Council NS Council NS Council Forest Research	Shapefile Hosted Feature Service Hosted Feature Service Hosted Feature Service Shapefile Shapefile Shapefile Shapefile Shapefile Shapefile	Create and maintain valued healthy landscape Build a resilient economy

⁵⁶ Natural England is currently (April 2021) working to update the Ancient Woodland Inventory to capture smaller sites and ancient wood pasture, which might highlight additional habitats in North Somerset. The updated data set should be utilised as part of any future updates to the strategy.

The figures below set out the strategic GI by each theme.

Figure 17 - Mapping of strategic GI by theme: Water

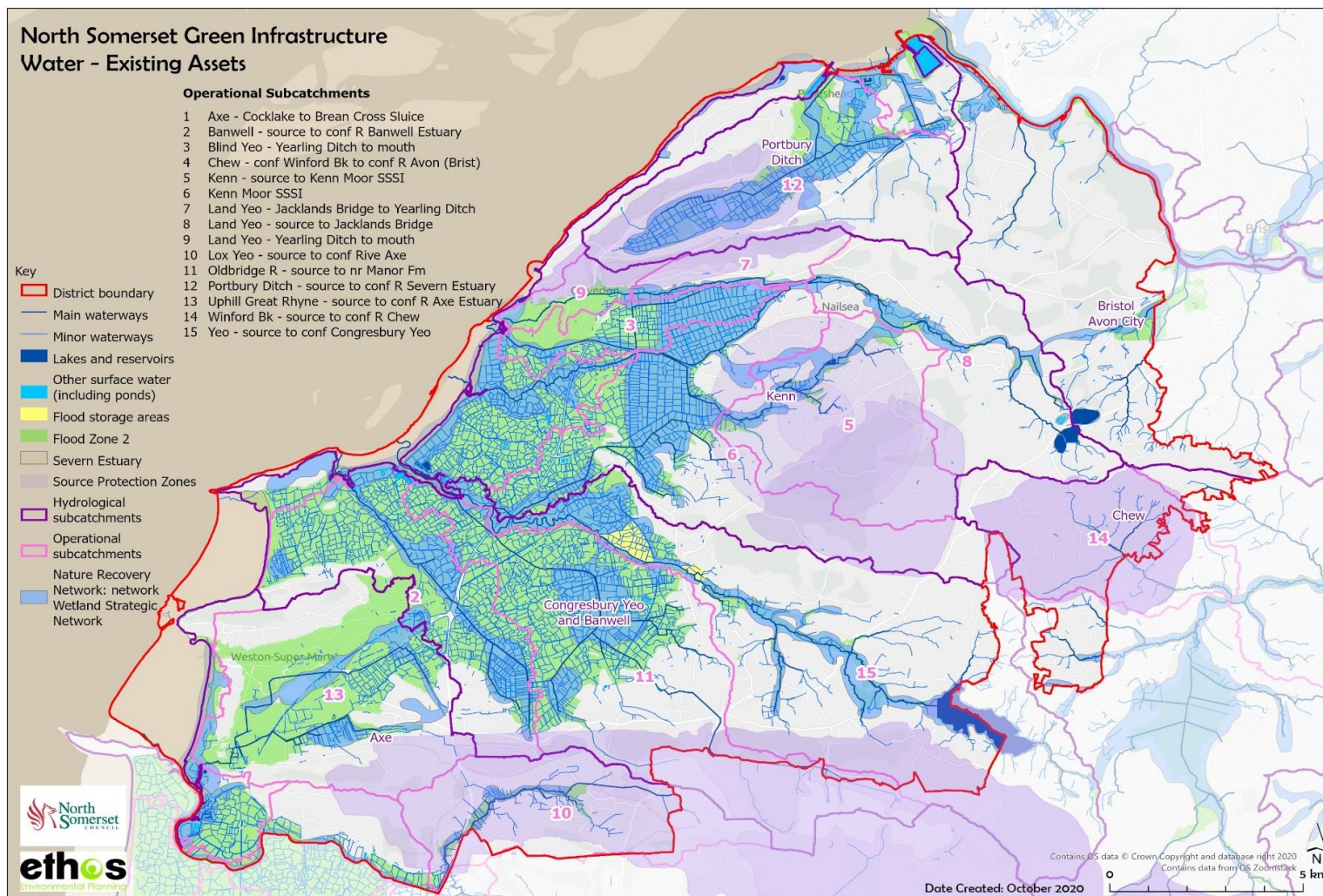


Figure 18 Mapping of strategic GI by theme: Biodiversity and Habitats 1a (Designated Sites, Nature Recovery Network and GCN eDNA data)

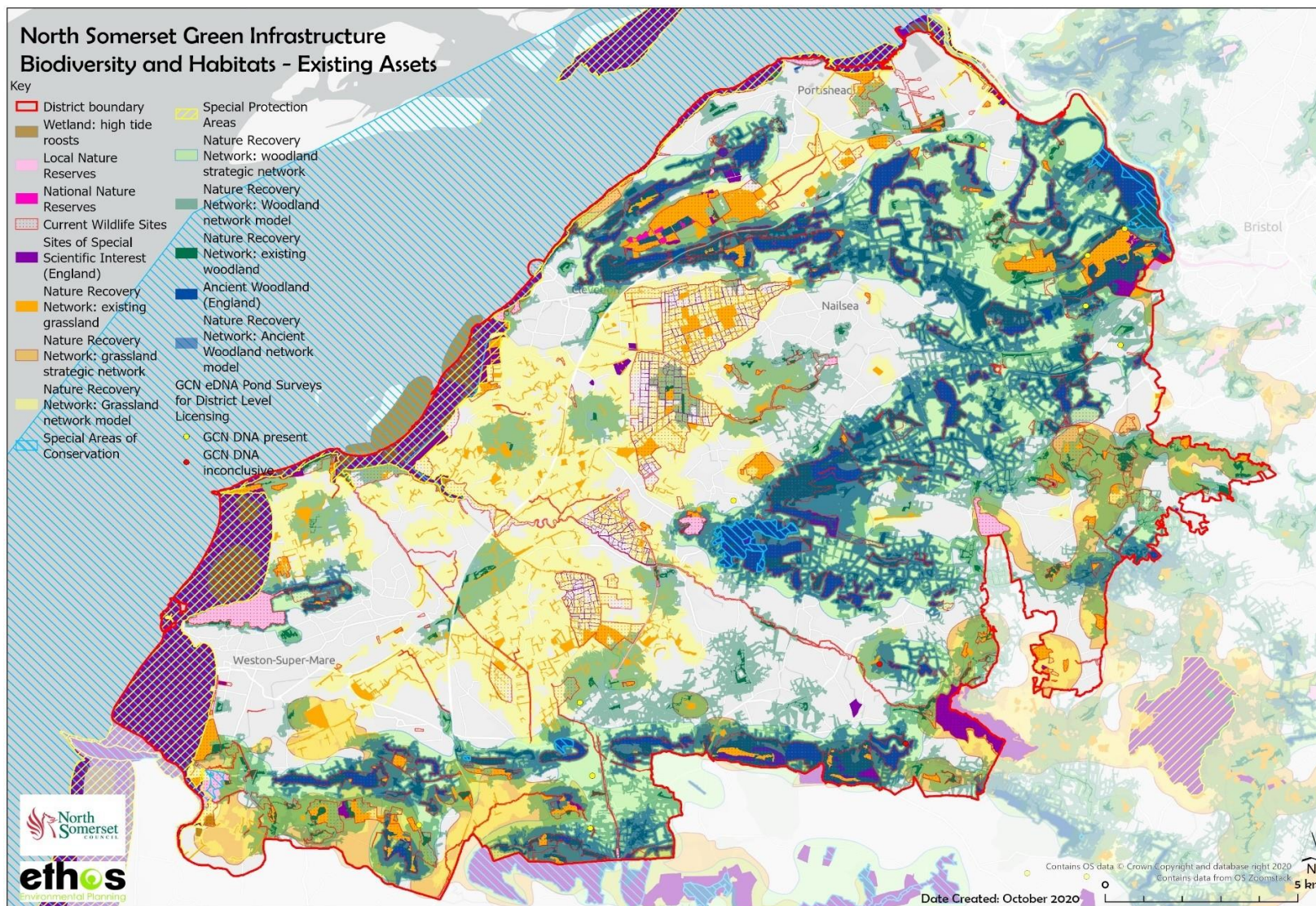


Figure 19 - Mapping of strategic GI by theme: Biodiversity and Habitats (Priority Habitat Inventory)

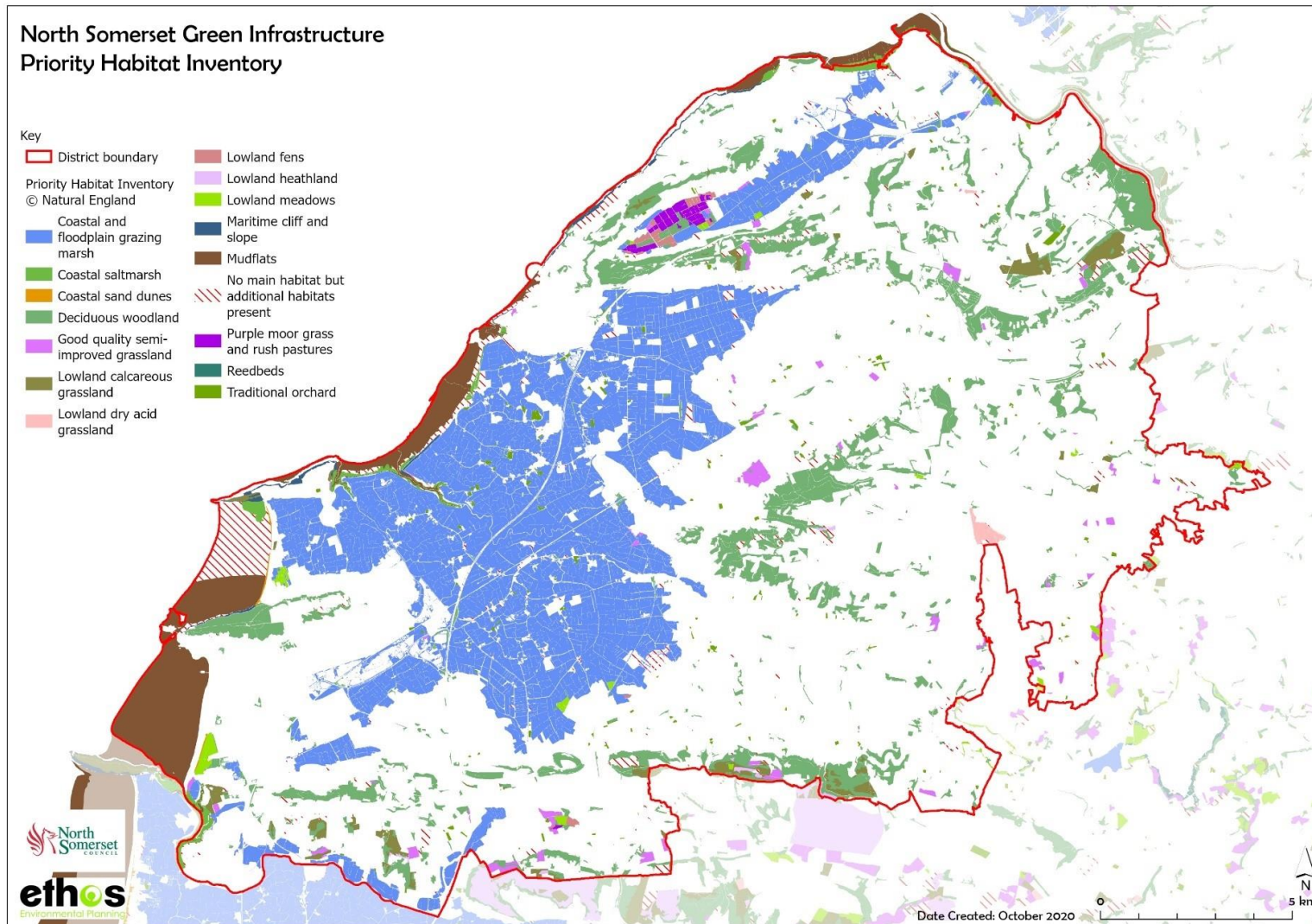


Figure 20 Mapping of strategic GI by theme: Biodiversity and Habitats (National Tree Map)

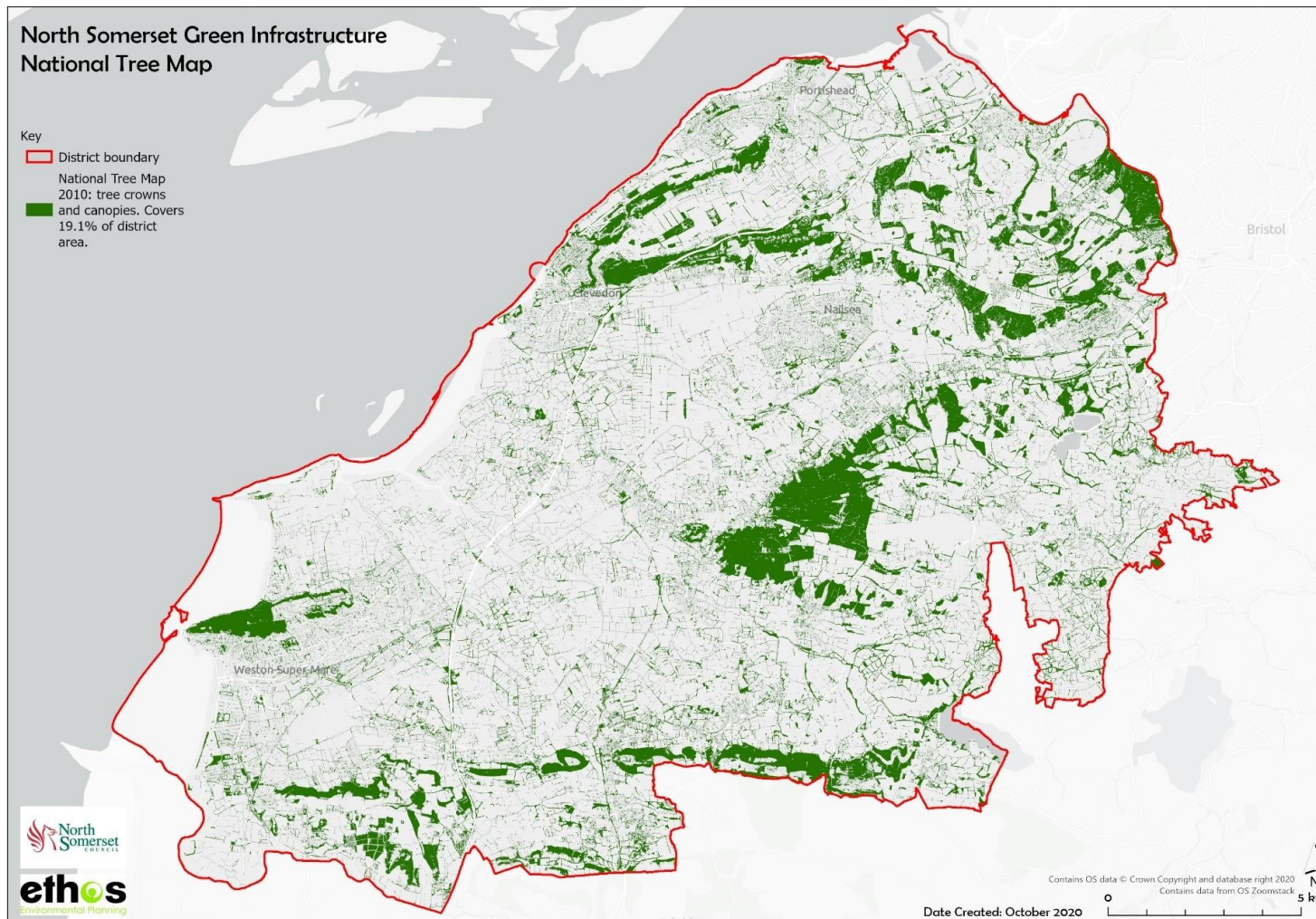


Figure 21 North Somerset Green Infrastructure Ancient Woodland and Tree Inventories

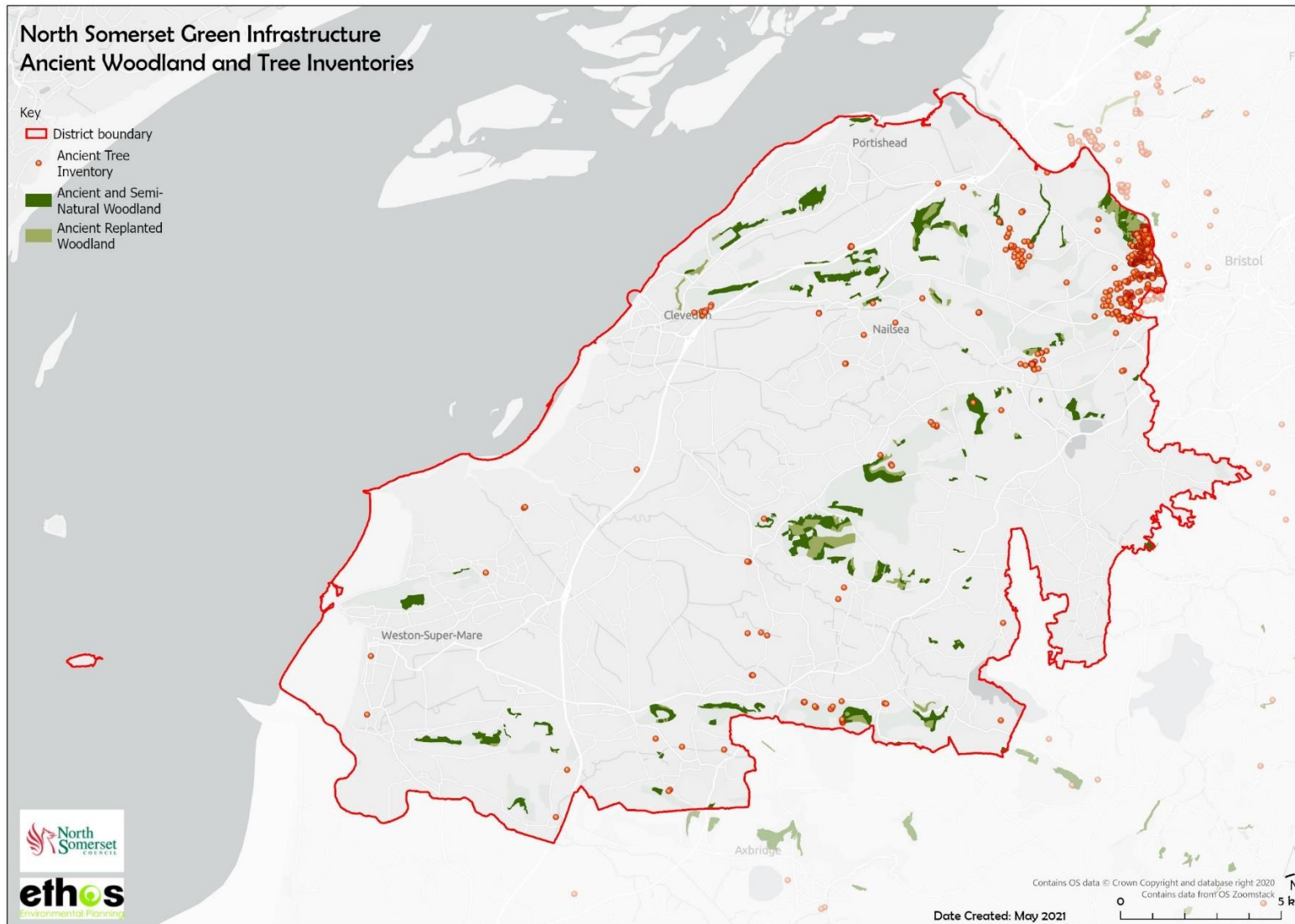


Figure 22 North Somerset Green Infrastructure Land Use/Habitats (OSM)

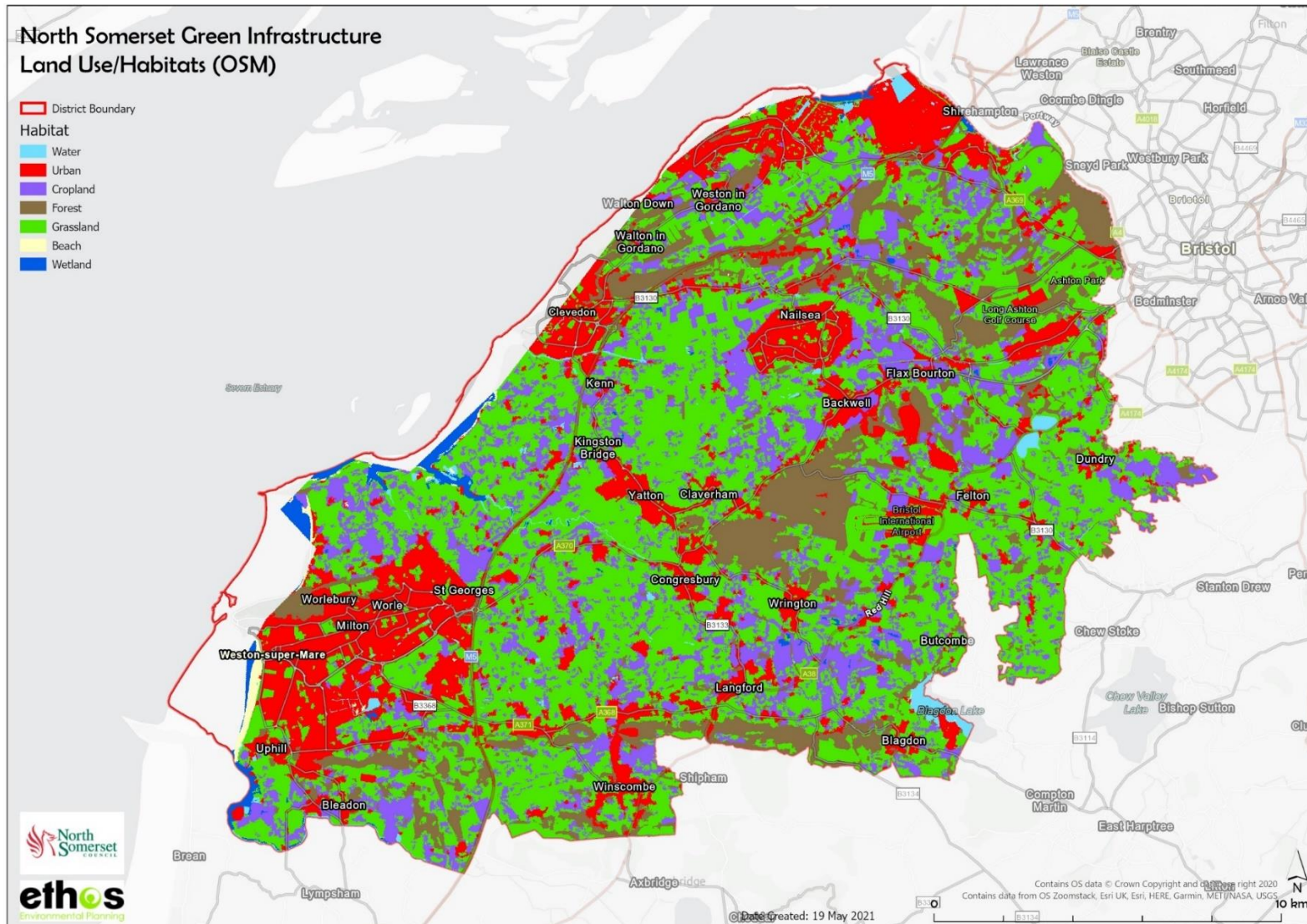


Figure 23 Mapping of GI network by theme: Accessible Open Space and Access Routes/PROW

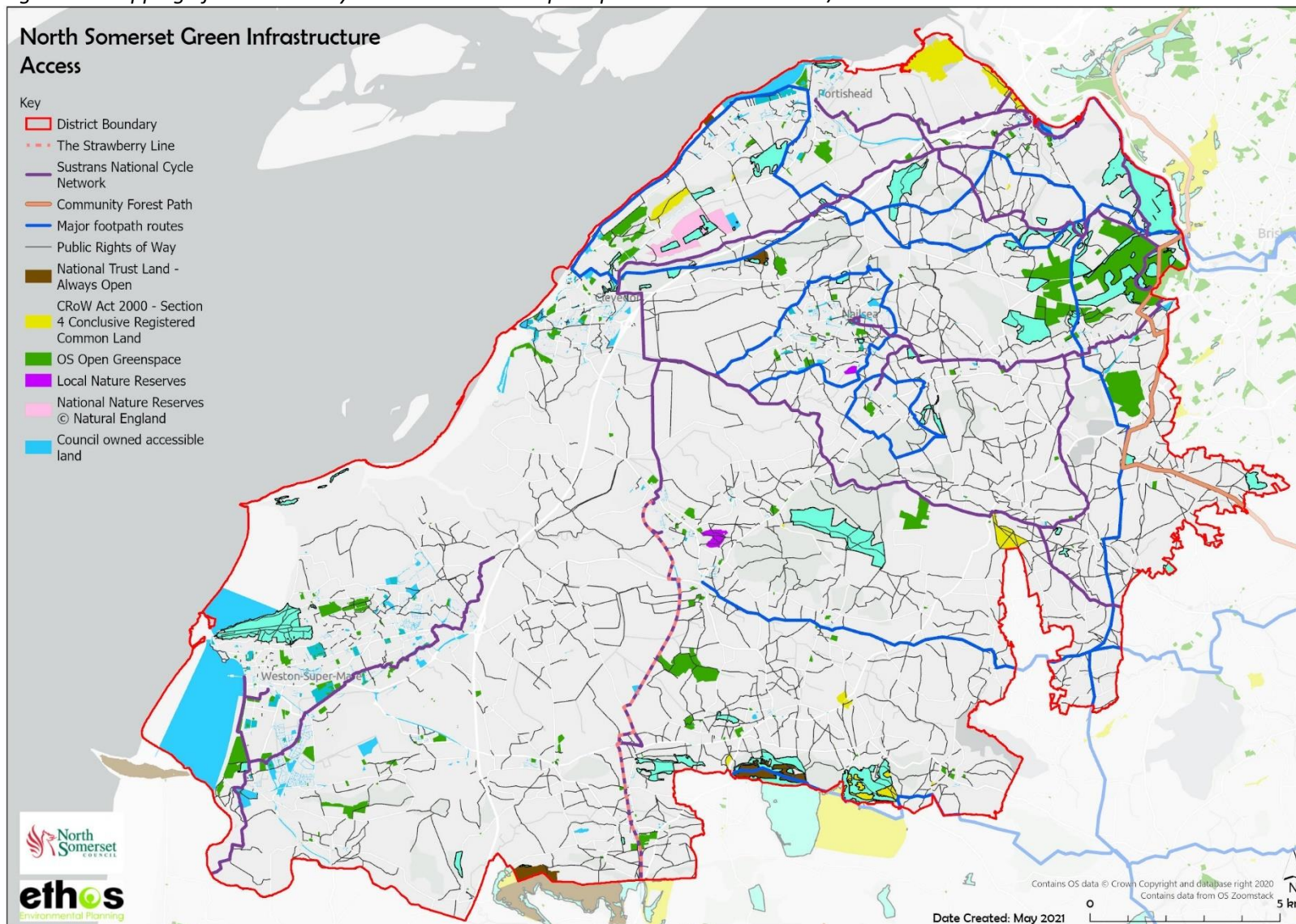


Figure 24 Mapping of GI network by theme: Food growing

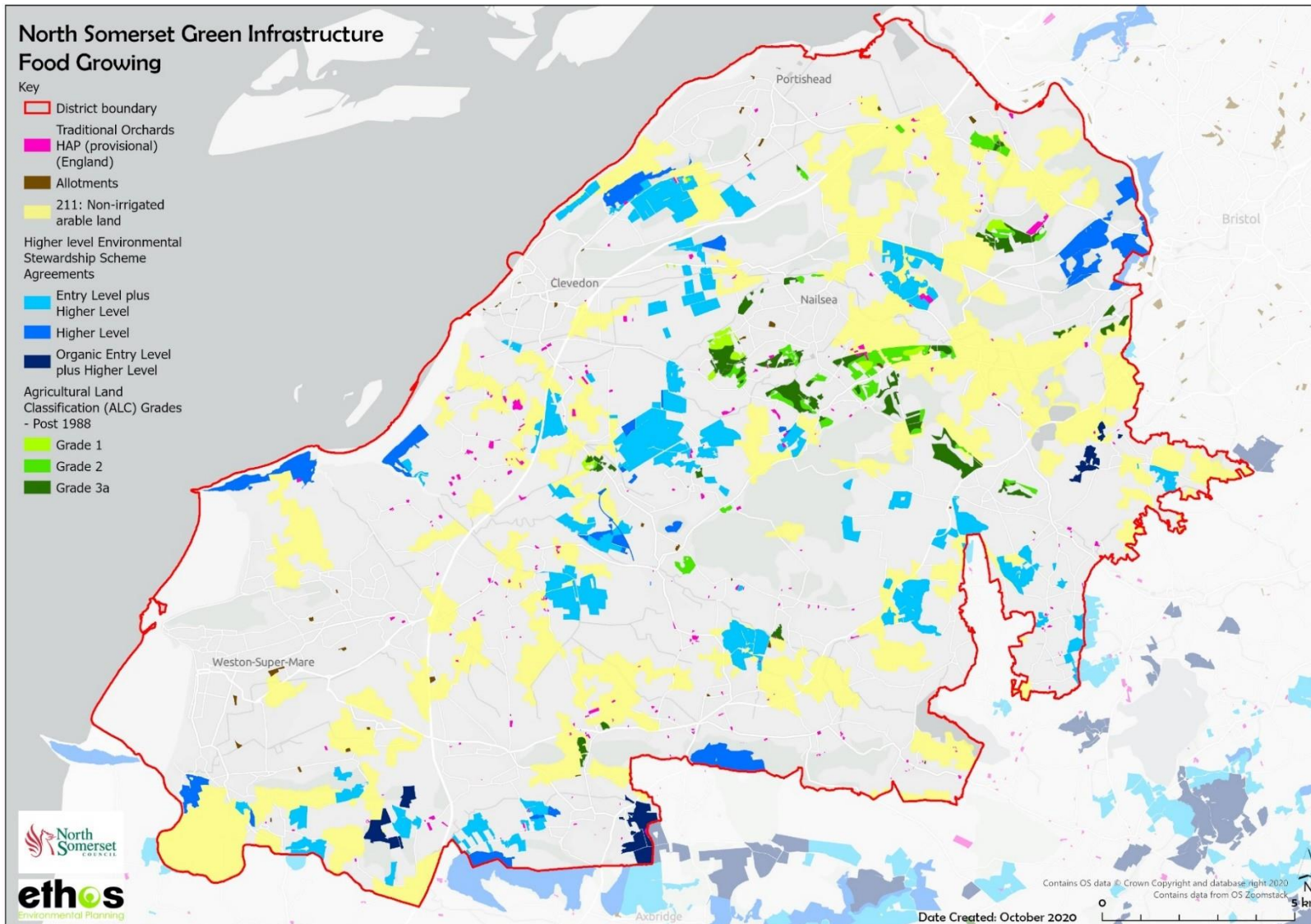


Figure 25 Mapping of GI network by theme: Heritage and Landscape (LCA and NCAs)

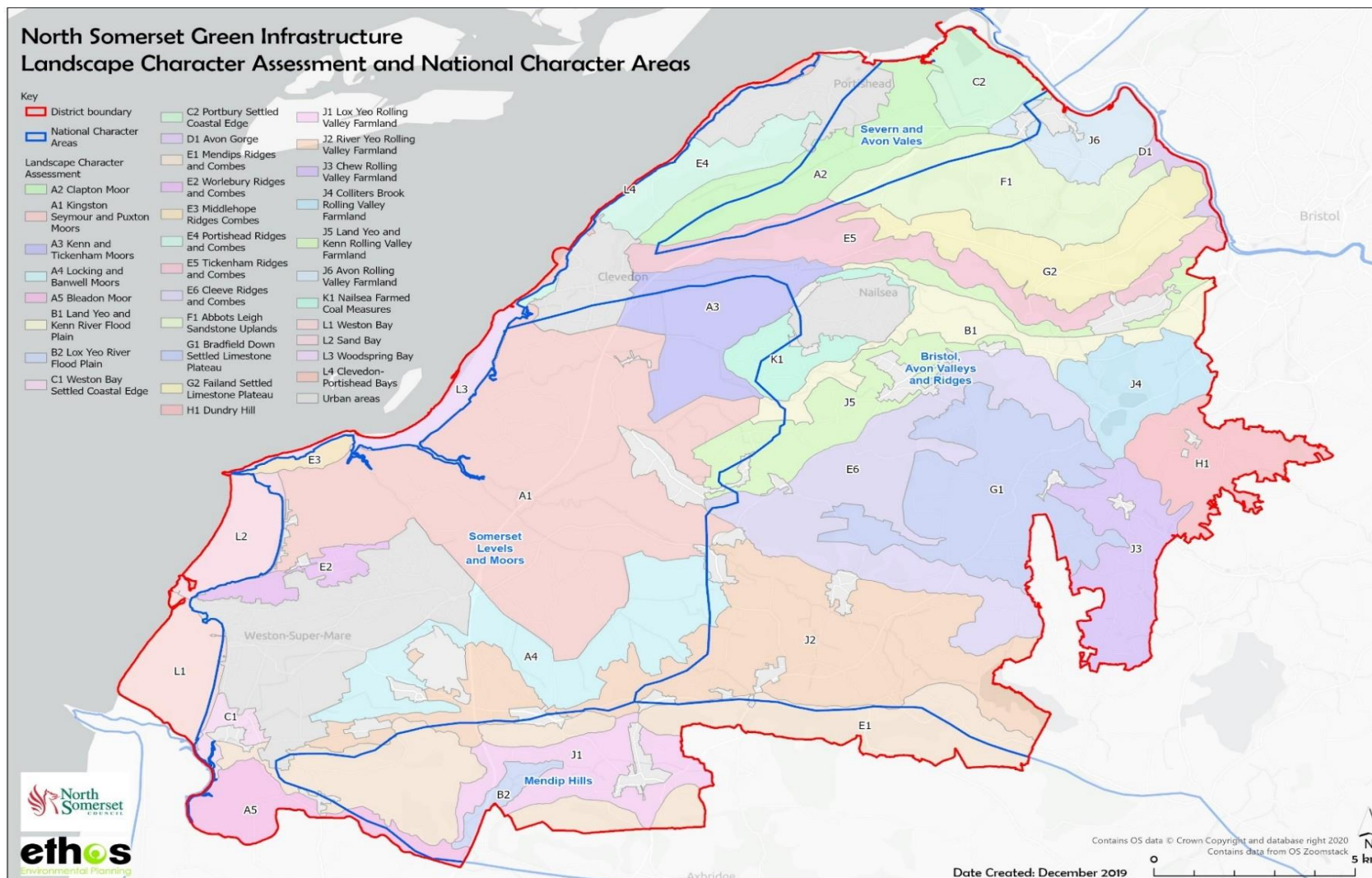


Figure 26 Mapping of GI network by theme: Heritage and Landscape (Scheduled Monuments, Historic Parks and Gardens, Conservation Areas, National Trust Land and AONB)

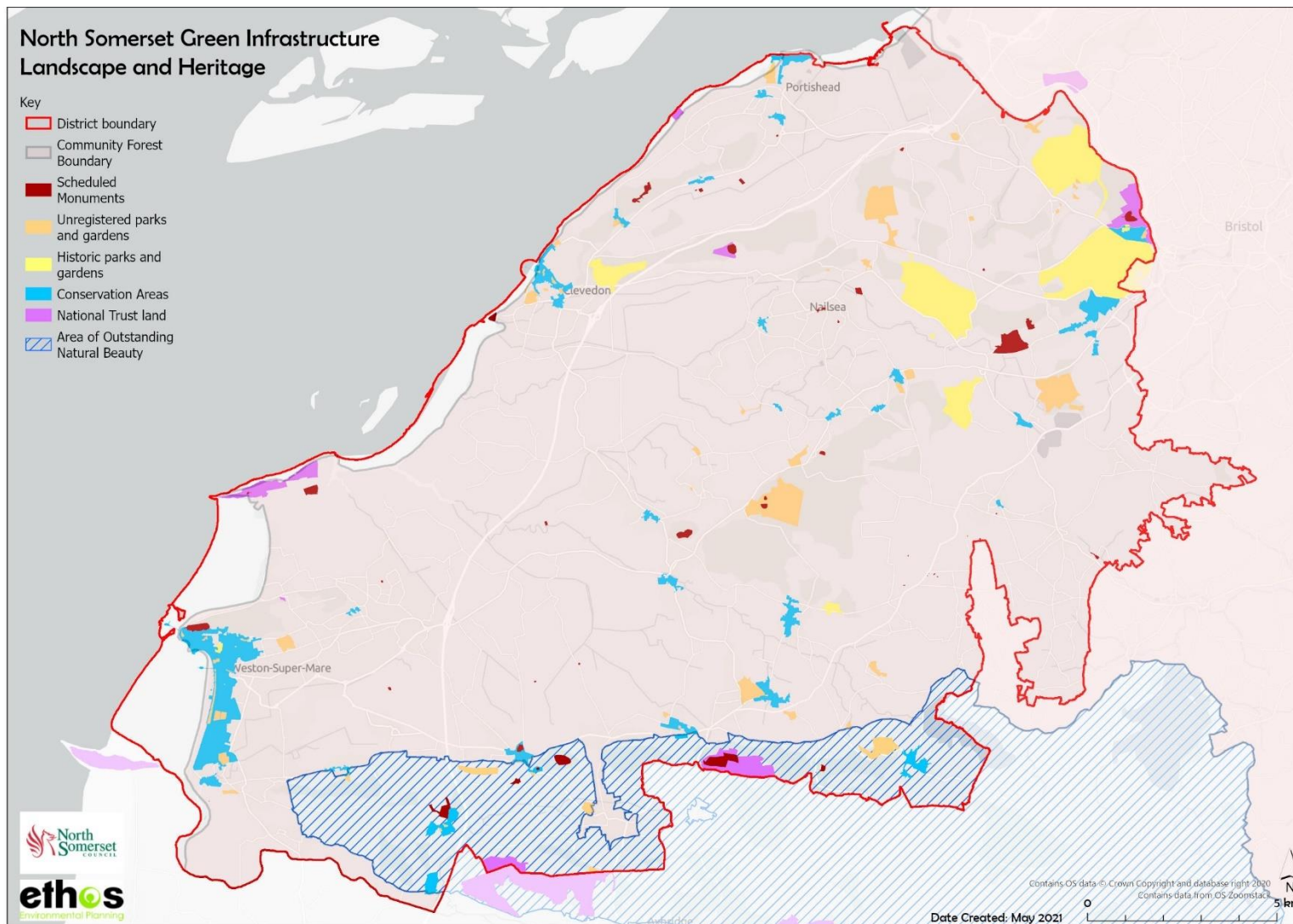
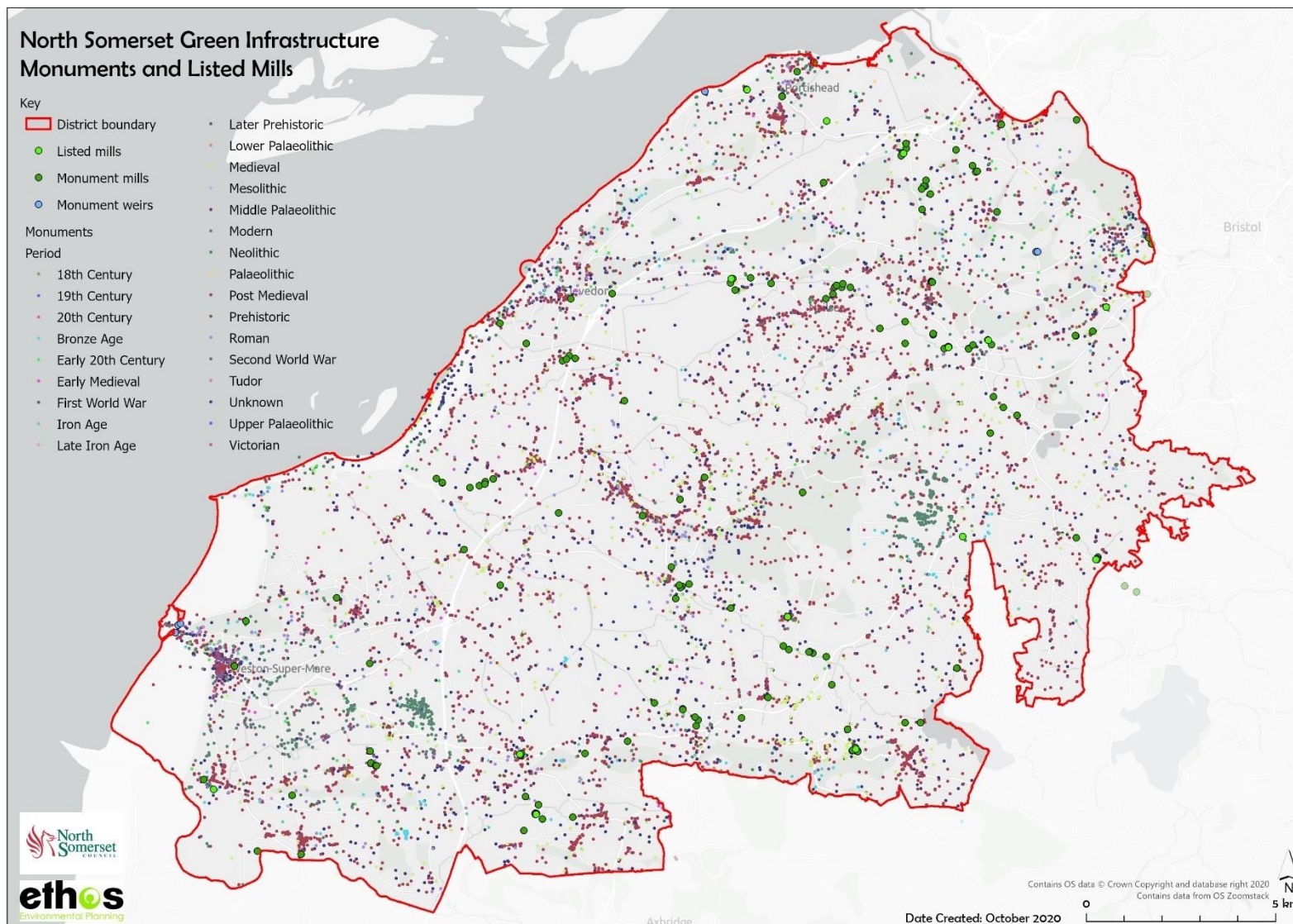


Figure 27 Mapping of GI network by theme: Heritage and Landscape (Monuments and Mills)



APPENDIX 4: GI OPPORTUNITIES

1.0 Overview

This appendix sets out some specific opportunities for improving the connectivity and quality of GI, identified through the policy and strategy review and consultation with NSC officers. The opportunities set out below provide a starting point for further discussion and development with project partners, and they are not exhaustive. As new projects and opportunities arise, some of which may be not included within this current Strategy, it is the intention of North Somerset Council and its partners to deliver enhanced GI at every opportunity.

The themes covered in this appendix are: water/blue GI, biodiversity and habitats, and open space and access routes.

2.0 Water/Blue GI

Table 10 and Figure 28 to Figure 29 below highlight some specific issues and opportunities for improving blue GI, as well as existing projects, drawing on various sources including: existing Bristol Avon Catchment Partnership (BACP) projects, WFD water quality data, the Nature Recovery Network (NRN) and Environment Agency data including WWNP (Riparian Woodland Potential and Floodplain Woodland Planting Potential), barriers to fish migration and combined sewer overflows.

The Nature Recovery Network opportunities for reconnecting a watercourse with its natural flood plain (based on Environment Agency data: WWNP: Floodplain Reconnection Potential), are shown Figure 28 below. In addition, barriers to fish migration are also shown. These areas indicate where collaborative action is needed to improve the connectivity of watercourses. The Environment Agency also encourage the de-culverting of watercourses to improve wildlife connectivity, as well as improved flood risk maintenance and flood water conveyance.

As well as improving the connectivity of watercourses, water quality is also a key issue. Figure 28 below shows that only one operational sub catchment within North Somerset (Kenn – source to Kenn Moor SSSI) has achieved overall ‘good’ status. Figure 29 also shows that the groundwater status is poor for much of North Somerset.

Combined sewer overflows are mapped at Figure 30. These are areas where diluted raw sewage and water runoff is released rivers and waterways after extreme weather events. Nature based solutions e.g. rainwater harvesting, green roofs, permeable paving general ‘urban greening’, and the use of wetlands, ponds and woodlands can help to slow the rate of run off into drainage networks, reducing flooding and also to improving water quality.

Figure 32 shows opportunities for tree planting within the flood plain and along riparian routes (EA WWNP data).

Areas within flood zones 2 & 3 (Figure 31) should not be included within the area for built development to ensure that they continue to function as natural river floodplains without modifications. Dedicating these areas to blue/green infrastructure, such as linear country parks /open space, can complement new developments whilst safeguarding the use of that land for flood management, biodiversity net gain, recreation, wellbeing etc.

It should be noted that in the Internal Drainage Board’s District (the Levels and Moors), the rhynes (ditches) in this area are generally not free flowing and water levels rise and fall. Any planting of trees within the Board’s District will require careful consideration as the availability of water in the area is severely impacted by drought conditions during the summer months and threatened by climate change. Significant numbers of trees may reduce the availability of water in the catchment and have an adverse impact on SSSIs, therefore a carefully considered and balanced approach to tree planting should be taken and it may be more appropriate for wetland enhancement and creation to be the focus of GI improvements in the Board’s District.

Table 10 – Opportunities for improving water/Blue GI (also see Figure 28)

Number on map (Figure)	Opportunity
1	Improve Gordano Valley SSSI. 35.30% in favourable condition. (Parts of it have been assessed as being unfavourable (61.18% recovering, 1.61% no change and 1.91% declining)*)
2	Improve Tickenham, Nailsea and Kenn Moors SSSI. (Parts of it have been assessed as being in unfavourable condition (7.91%recovering, 27% no change and 1.21% declining). 68.88% in favourable condition)*)
3	Improve Biddle Street SSSI (Only 16.42% in favourable condition. 55.53% in unfavourable recovering, and 28.04% in unfavourable declining)*)
4	Improve quality of Puxton Moor SSSI. Overall in favourable condition. (Parts have been assessed as being in unfavourable declining condition (6.11%). 93.89% in favourable condition)*)
5	North Somerset Levels and Moors Partnership Project (Ongoing) BACP Project: Working with landowners to improve habitat management for wildlife and to promote soil management to help mitigate flooding, improve water quality and increase habitat for wetland birds.
6	Nailsea Multi-functional Constructed Wetland (Ongoing) BACP Project: A partnership led project to provide detailed design to identify how a multifunctional wetland can be implemented. This will build on work that has previously been delivered in stage 1 of the scoping process.
7	Bristol Water River Congresbury Yeo Project (Ongoing) BACP Project: This project will assess the impacts of the reservoir on the rivers downstream in terms of Water Framework Directive (WFD). Trials of options to mitigate impacts will be delivered.
8	Parts of Severn Estuary SSSI in unfavourable Condition (However, 92.69% in favourable condition).
9	Mendip Lakes Partnership (Ongoing) BACP Project: Working with farmers across the Blagdon and Chew Reservoir catchments to improve water quality and enhance habitats.

10	NSC Summer Lane Ponds Flood Relief Scheme. To reduce the risk of flooding in Locking Castle with improvements to the Summer Lane ponds and surrounding ditches. Funding has come from the Environment Agency, the Regional Flood and Coastal Committee, North Somerset Council and Wessex Water. Delayed due to COVID 19.
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*Overlaps with opportunities for improving grassland habitat.

Figure 28 North Somerset Green Infrastructure Water Opportunities

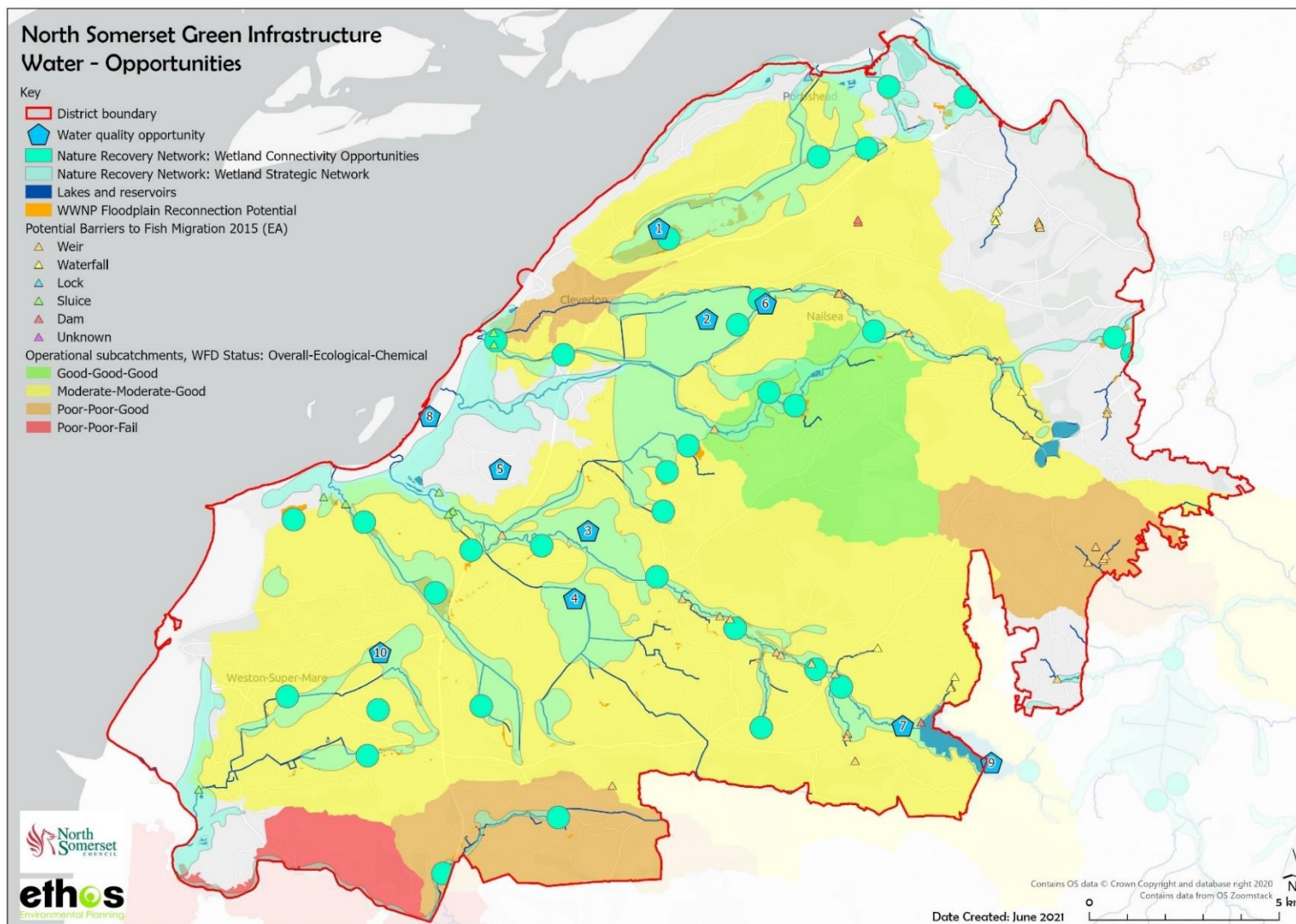


Figure 29 Groundwater Status

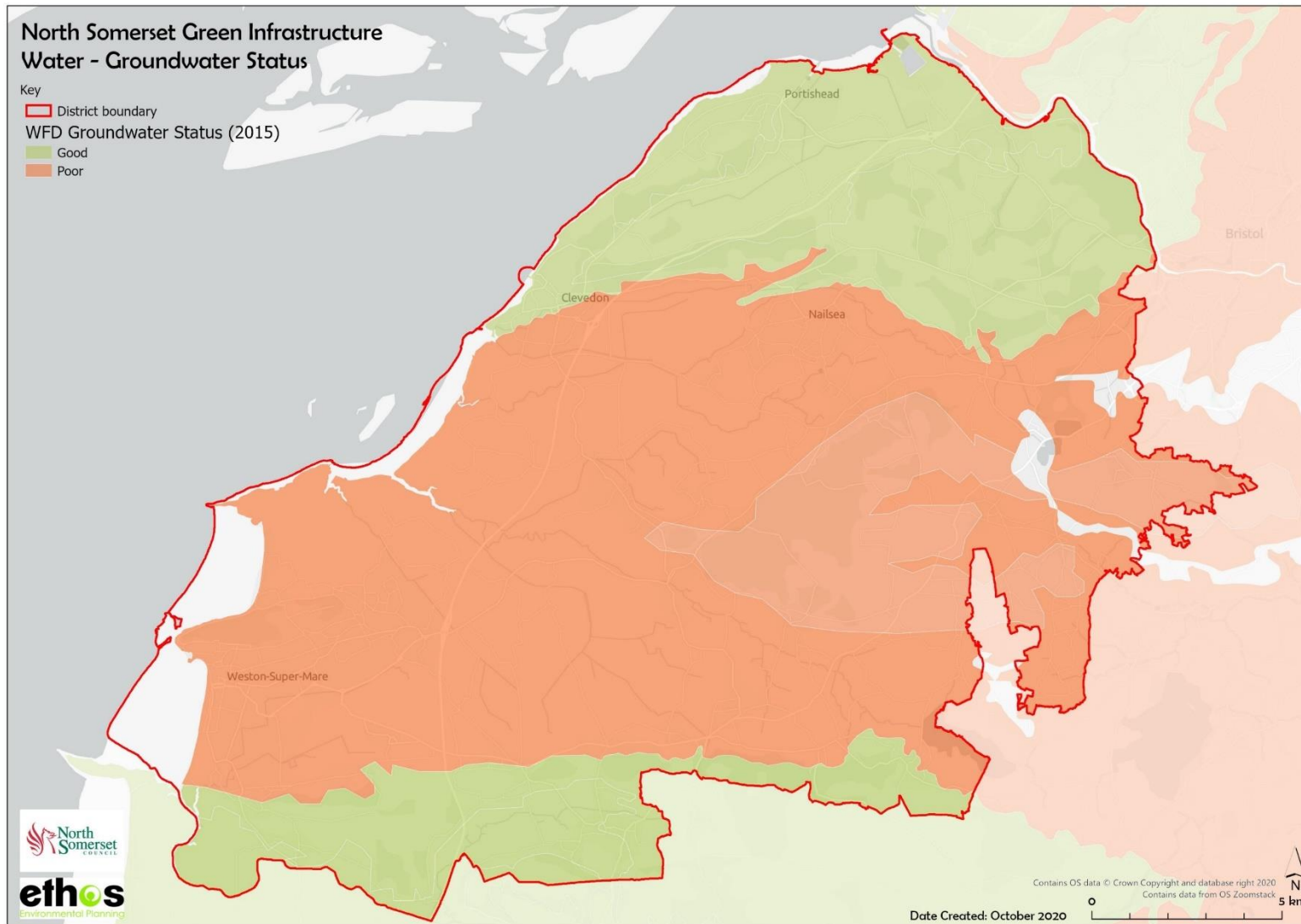


Figure 30 Combined sewer overflows

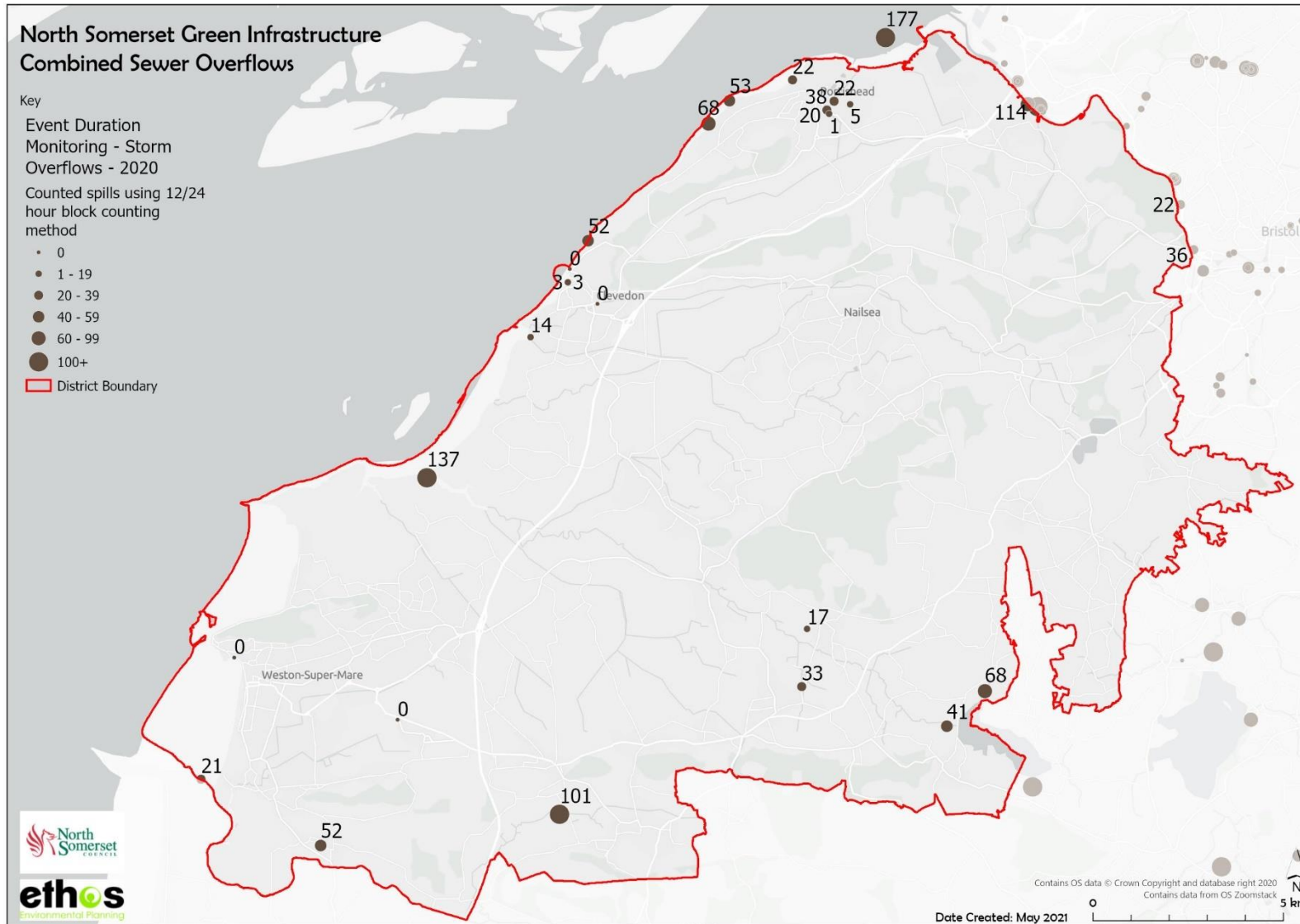


Figure 31 EA Flood Zone 2 and 3

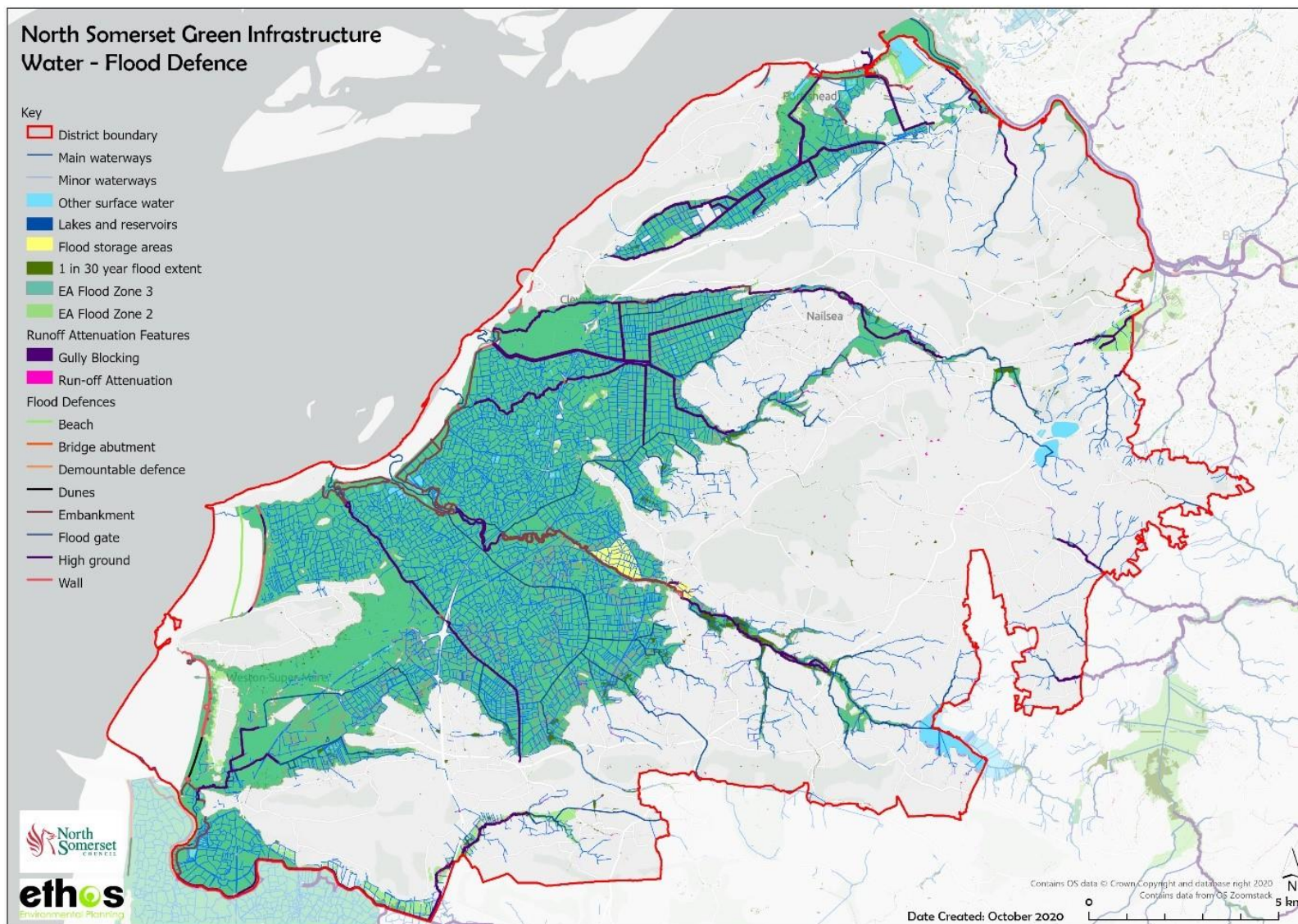
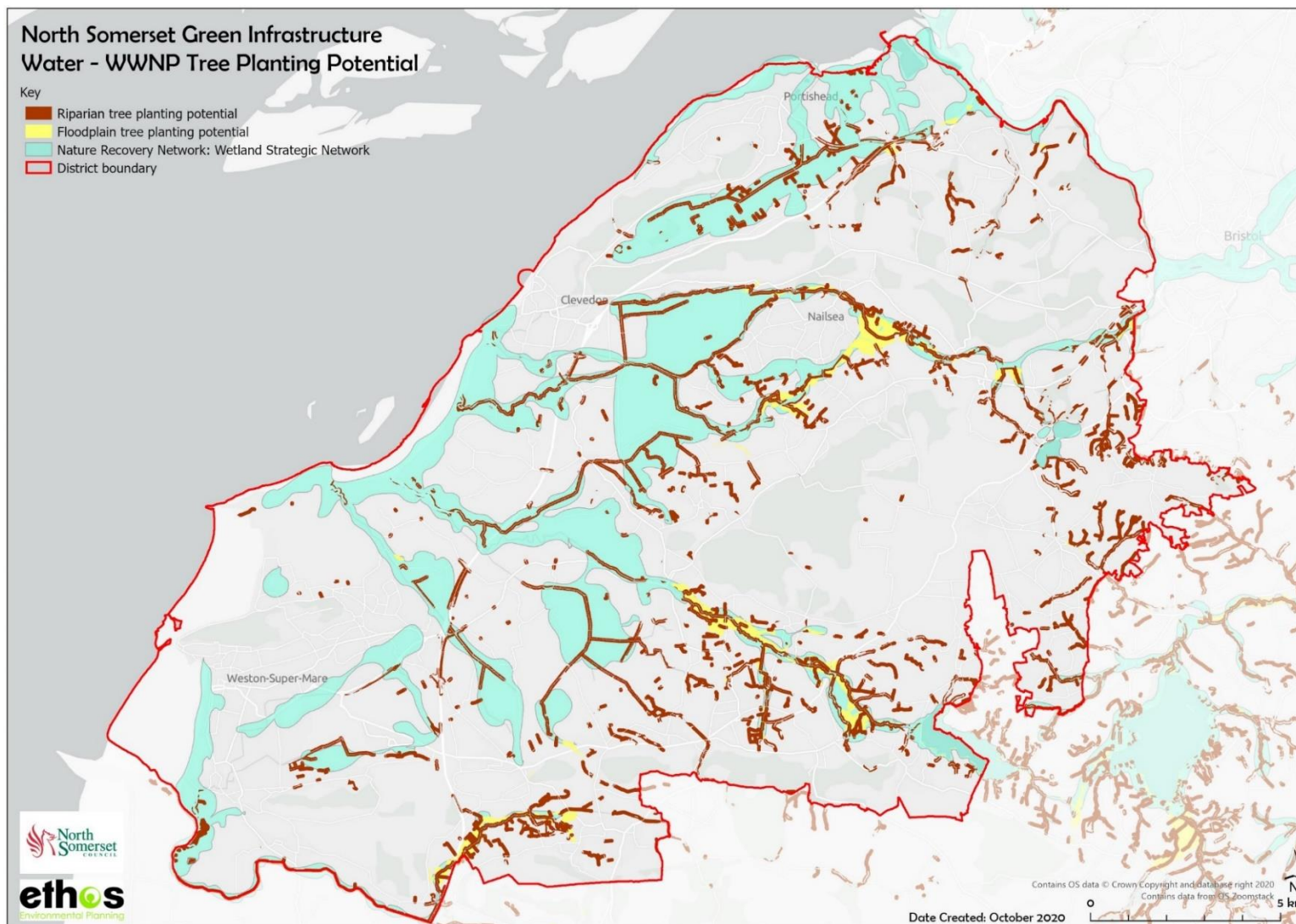


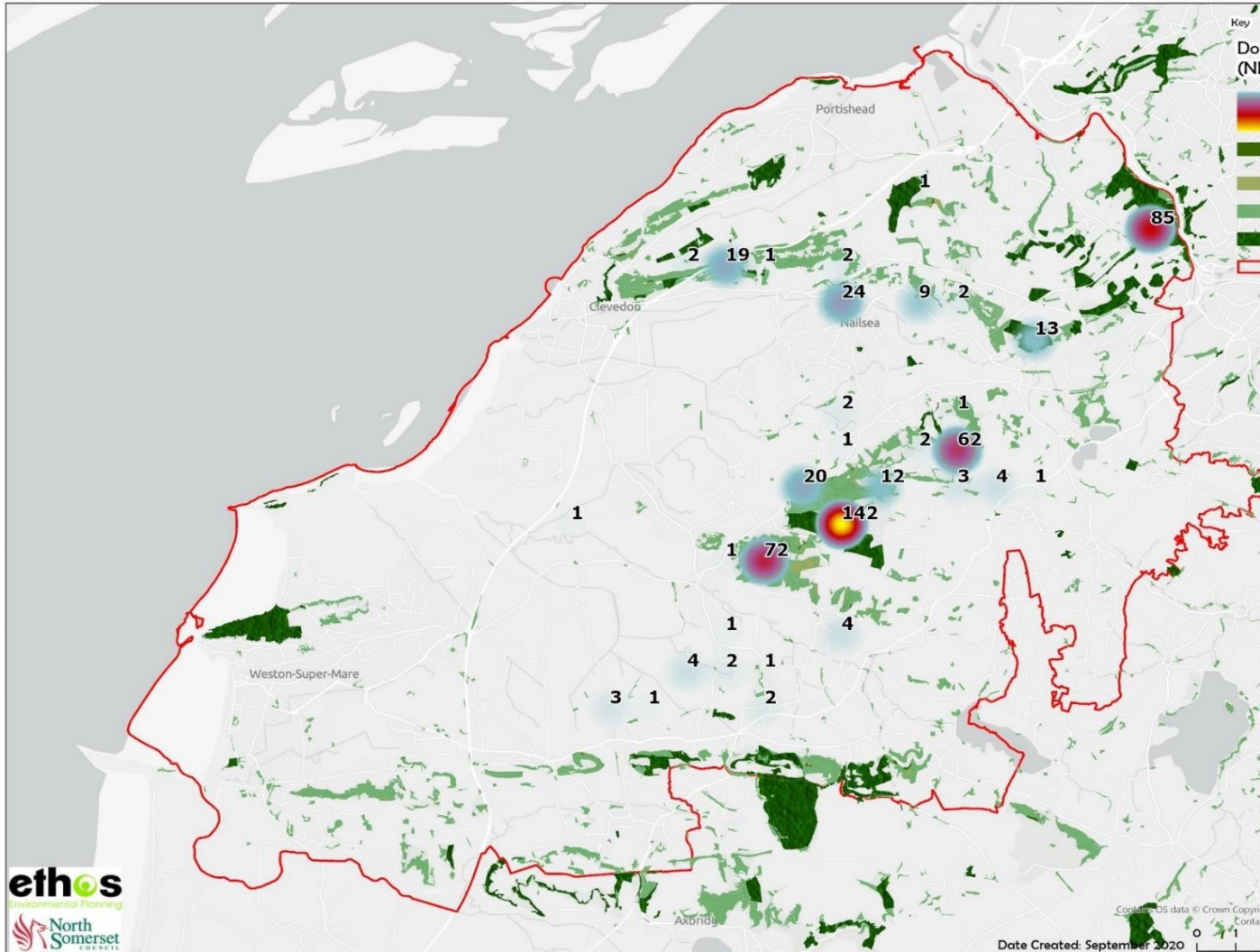
Figure 32 EA Working with Natural Processes (Riparian tree planting potential and floodplain tree planting potential)



3.0 Biodiversity and habitats

3.1 Woodland

Table 11, Table 12 and



below highlight some specific opportunities for improving the connectivity and quality of woodland habitat, drawing on various sources including SSSI condition assessment, NRN data (which utilised the Natural England Habitat Natural England Habitat Network¹ dataset), as well as dormouse records (see **Error! Reference source not found.**).

As well as the more strategic landscape-scale connectivity opportunities highlighted in this section of the report, the important role of hedges, copses, field and street trees, and scrub in providing connectivity across mosaic habitats at a range of scales is also recognised.

Table 11 - Opportunities for improving woodland connectivity

Arrow	Opportunity
Label	

1	Connect fragmented woodland areas to create corridor of woodland, which will link 2 large networks. Will link three Ancient woodlands: Fullers Hay (south), Hanging Wood (middle) and Scars/Lye Wood (north). Arrow passes through 2 WENP Opportunities. Soil wash: runoff seen most years in this area.
2	Connect several areas of ancient woodland, west to east: Buddings Wood, Hails Wood, Leigh Wood/Markham Bottom, Old Park Wood/Vowles Bottom, and Leigh Wood/ Oak Wood. Soil wash: runoff seen most years in this area.
3	Connect two large areas of ancient woodland; Buddings Wood and Parsonage/Dunhill/Chummock Woods.
4	Link fragmented ancient woodlands; Bourton Combe, Breach Hill Wood, Crossgrove Wood and Barrow Wood,
5	Connect small fragmented woodlands between two areas of ancient woodland: Chelvey Wood and Bourton Combe. Avoiding Quarry in middle. Soil Wash seen most years.
6	Connect fragmented ancient woodland areas (Simshill, Prestow/Shippenhays Woods, Whitley Coppice/Tuckers Grove, Little Horts and Horts Wood) to create corridor of woodland, which will link 2 large networks.
7	Riparian planting potential. Could link three areas of woodland together. Soil Wash: runoff seen most years.
8	Failand Ridge Woodlands; connection opportunities. *Corridor extended on map linking 'Failand Ridge' via Nailsea/ Backwell to the 'Airport Ridge' to the Mendip woodland corridor at Blagdon*.
9	Failand Ridge Woodlands; connection opportunities.
10	Failand Ridge Woodlands; connection opportunities.

Table 12 - Opportunities for improving woodland quality

Point Number	Opportunity
1	Connect two ancient woodlands. Riparian woodland potential. WENP have identified as opportunity.
2	Improve condition of Walton Common SSSI (Condition is 'Unfavourable Declining' and more than half the site is Broadleaved Woodland).
3	Improve condition of Gordano Valley SSSI (Current condition is 'Unfavourable Declining' and half of the site is Broadleaved Woodland).
4	Improve condition of SSSI woodland to create better link between SSSI and ancient woodland
5	Connect Knowle Wood with Dolebury Warren. This will link Ancient woodland with SSSI woodland. Land is currently grazed fields/hedgerow.
6	Connect Elborough Wood to Benthills Woods (ancient woodlands)
7	Create wider connecting woodland between two SSSI woodlands. Current connecting woodland is narrow because grazed field in middle. Soil wash: runoff most years.

Point Number	Opportunity
8	Link two large ancient Woodlands
9	Create continuous link between ancient woodland (land is currently grazed fields)
10	WENP Opportunity with Riparian planting potential
11	WENP NRN Woodland Connectivity Opportunity
12	WENP NRN Woodland Connectivity Opportunity
13	WENP NRN Woodland Connectivity Opportunity
14	Opportunity to connect two large areas of Broadleaved woodland: Tyntesfield Plantation and Truckle Wood
15	Opportunity to connect two large areas of Broadleaved woodland: Tyntesfield Plantation and Truckle Wood
16	Link Benthills Wood and Ancient woodland to the south. Land is currently arable.

Figure 33 North Somerset Green Infrastructure Woodland Opportunities (corridor 8 extended)

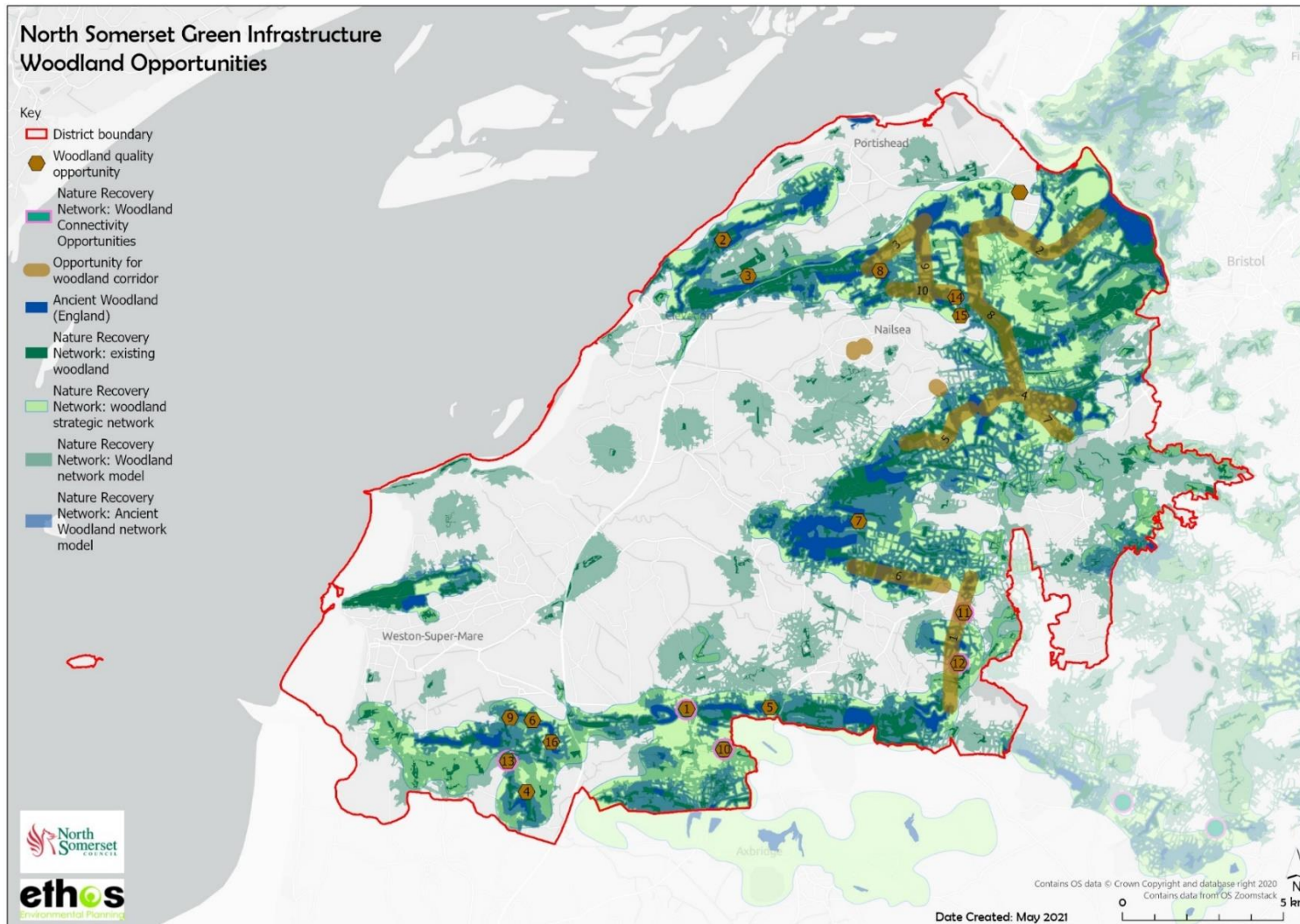
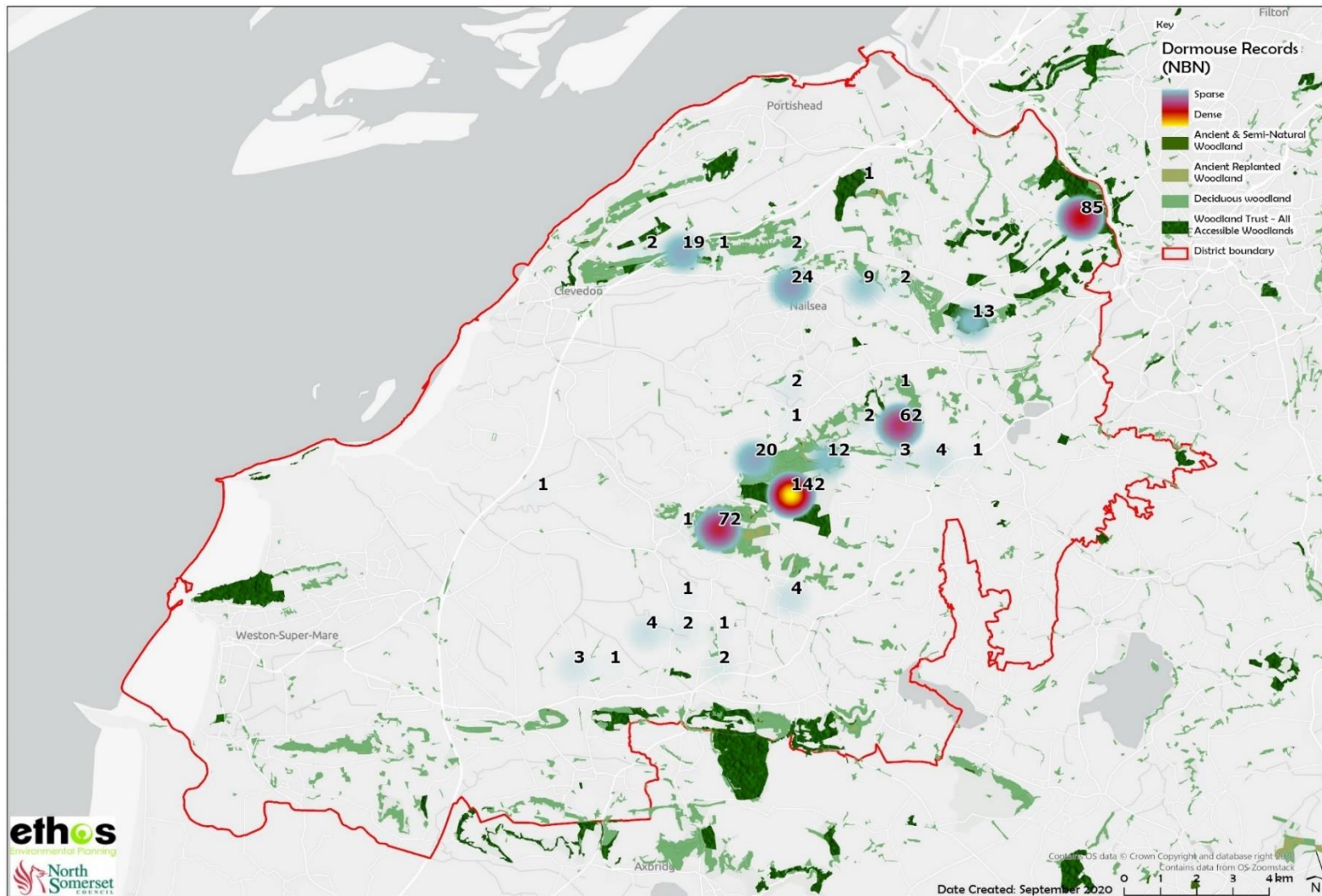


Figure 34 North Somerset Dormouse Records



3.2 Grassland

Table 13 and Figure 35 below highlight some specific opportunities for improving the connectivity and quality of grassland habitat, drawing on various sources including SSSI condition assessment, NRN data (which utilised the Natural England Habitat Network mapping²) and the strategic GI corridors developed as part of this strategy.

Table 13 - Opportunities for improving grassland

Number	Opportunity
1	Opportunity to improve connectivity of grassland and traditional orchards (North Somerset Levels and Moor Partnership)
2	Improve Walton Common (calcareous grassland SSSI). 100% unfavourable - declining
3	Improve Dolebury Warren, Avon Wildlife Trust Site. 91% unfavourable - recovering
4	This field and the LWS adjoining are identified by Natural England as sites for Habitat Restoration and Creation
5	Priority habitat around this point identified by Natural England as sites for Habitat Creation/Restoration
6	This strip identified by Natural England as area for Habitat Creation/Restoration
7	Identified as area for Habitat Creation by NE? But down as existing grassland LWS by Council. Key site as part of Crook Peak Nature Reserve/SSSI.
8	Core Grassland but SSSI (Shiplait Slait) is unfavourable declining
9	Habitat Restoration/Creation identified near existing Lowland Calcareous Grassland.
10	Key connectivity potential identified by NRN linking lowland dry acid grassland adjacent to the airport through existing grassland to assets at Winford.
11	Identified as suitable for habitat creation/restoration by Natural England, next to lowland dry acid grassland.

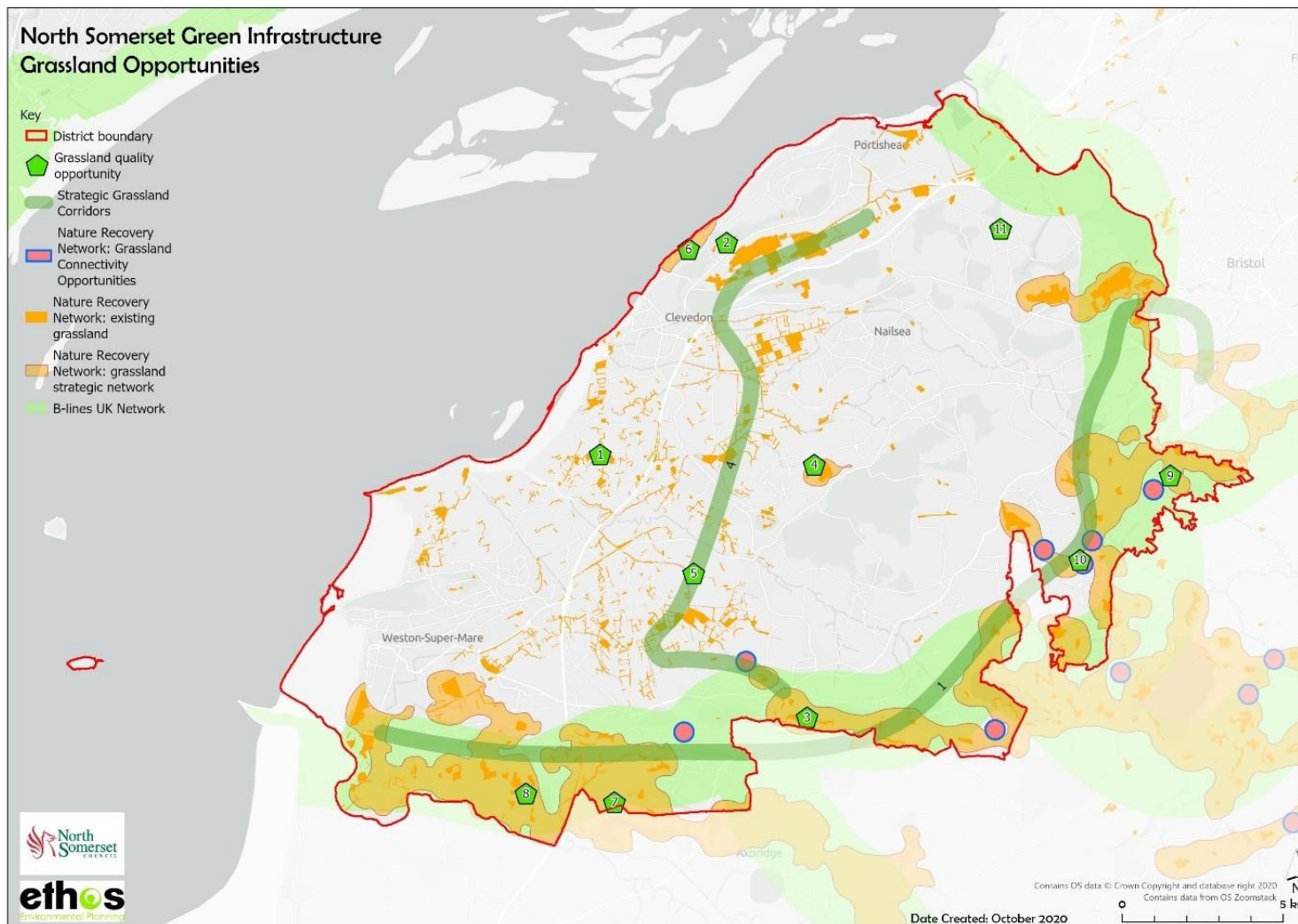


Figure 35 North Somerset Green Infrastructure Grassland Opportunities

4.0 Open Space and Access routes/PROW

When looking at accessible open space across the district (see

below) and applying an access buffer of 300m to these publicly accessible open spaces (see **Error! Reference source not found.** below, and Section 8.3.3 of main report), there appears to be good access to open space in general. However, it is recommended that an update open space assessment is undertaken in order to review the provision of open space, particularly in terms of the specific typologies of open space e.g. parks, amenity green space, natural green space, play space, allotments etc. and associated standards for quantity, access and quality.

Opportunities to improve key strategic access routes have been identified through the policy and strategy review and consultation with NSC Natural Environment Team and are summarised in Table 14 and

below.

Table 14 - Opportunities for improving access routes/PROW

Arrow number	Opportunities
1	Improve connection between Weston and the northern towns. Opportunity to connect two national cycle routes.
2	Increase access between Weston and Bleadon
3	Increase access from Bleadon to Banwell
4	Use Wrington light railway to create a multi-user route
5	Extend Strawberry Line (multi-user route) to Clevedon
6	Increase access between Nailsea and Backwell. Lack of cycling and walking routes. Connectivity should include the railway station.
7	Development of England Coastal Path - currently being determined by Secretary of State. Will run from River Avon at Avonmouth to River Axe at Brean Down.
8	Tuthill Sluice Cycle Route.

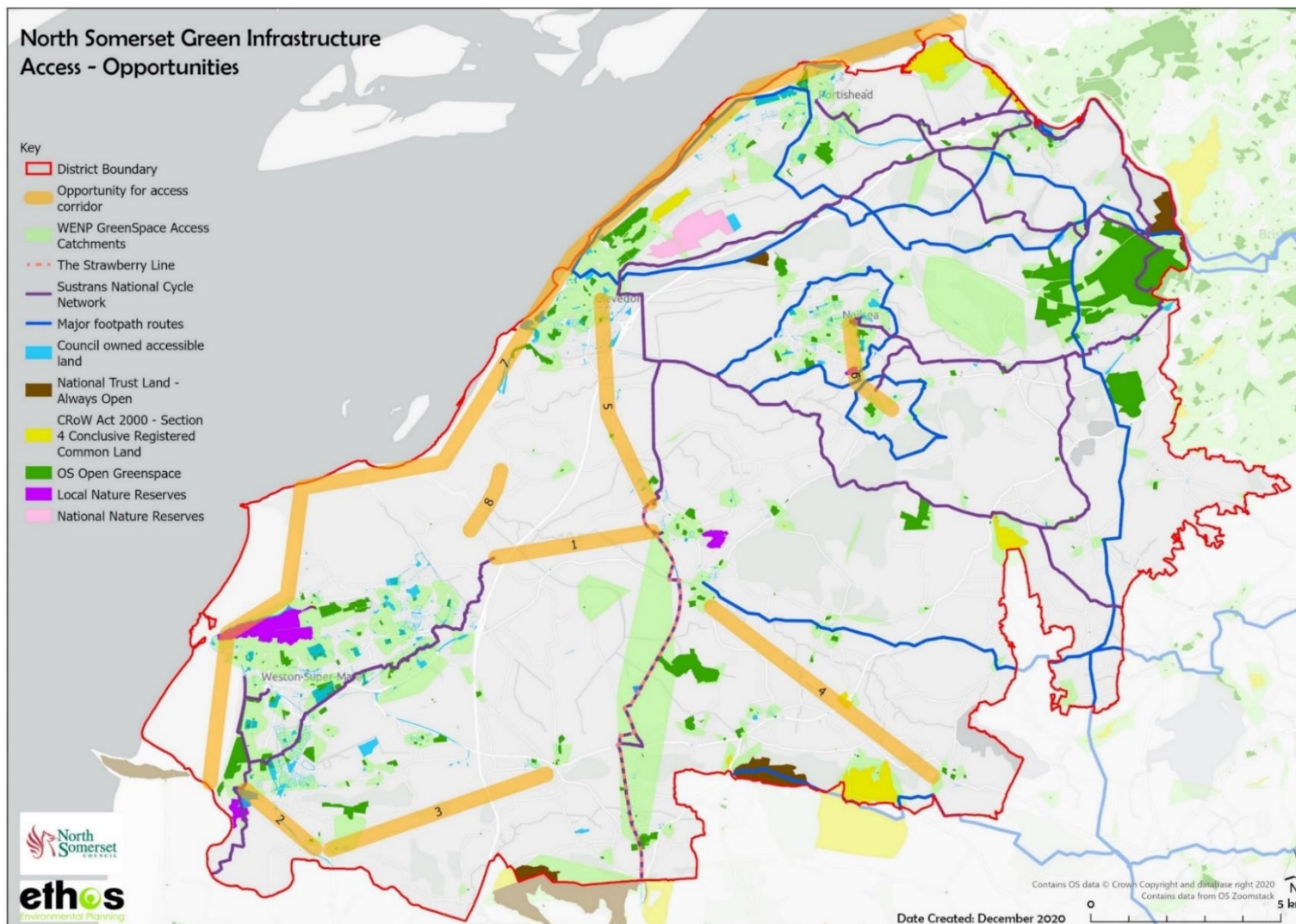


Figure 36 Potential to improve strategic access routes

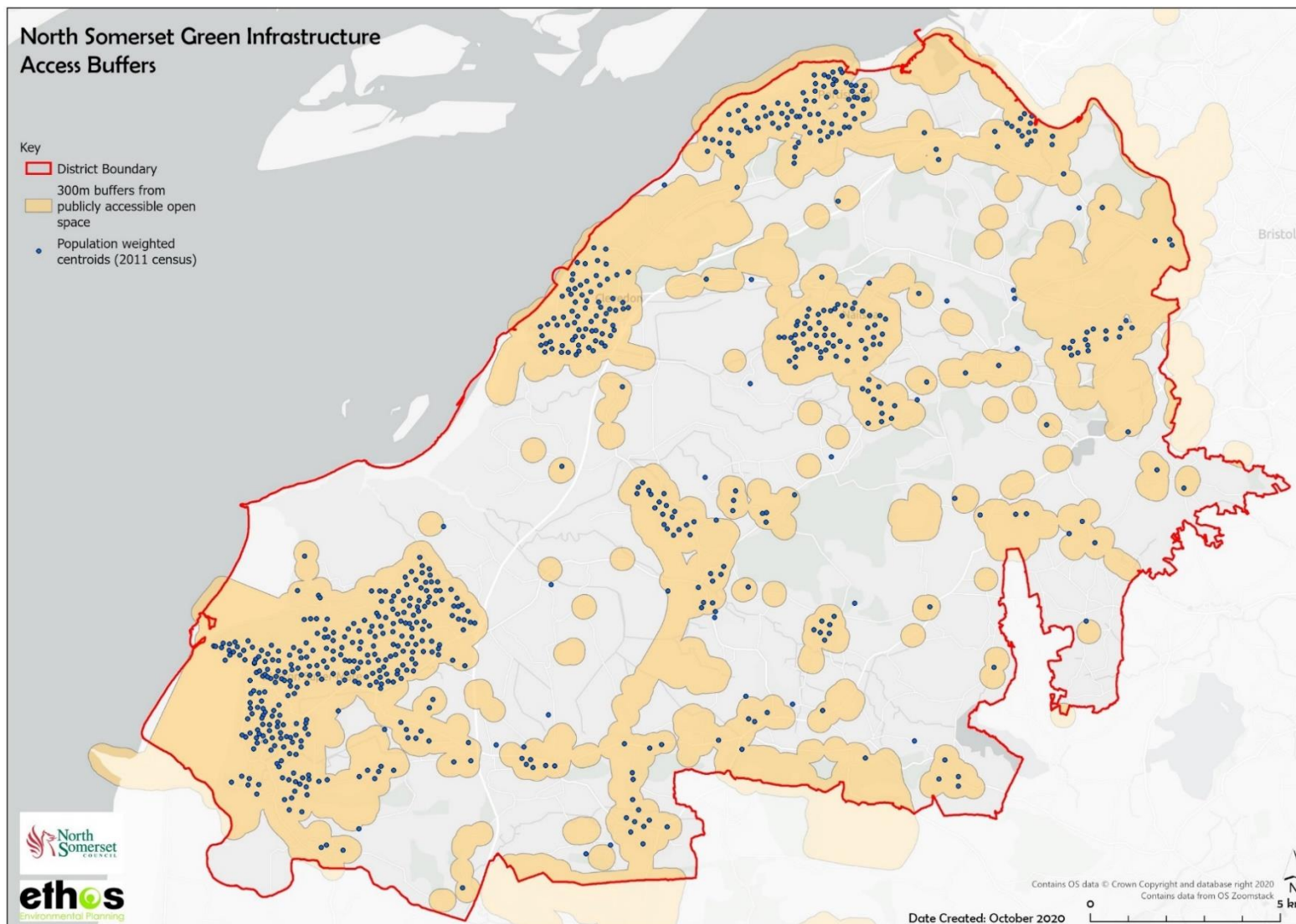


Figure 37 Access to open space (300m buffer)

APPENDIX 5: NSC 'REWILDING' AREAS

The most up to date mapping for the proposed areas for rewilding North Somerset Council owned land can be found here:

<http://map.n-somerset.gov.uk/Rewilding.html>

APPENDIX 6: FUNDING OPPORTUNITIES FOR GI

The funding for delivery of the strategic GI network and GI projects could come from a variety of sources. This Appendix identifies some of the funding opportunities that may be available. Funding opportunities include the following:

- Developer contributions (S106 and CIL) e.g. provision of open space to meet local authority standards, or funding for strategic GI through CIL.
- Agri-environment schemes and land management schemes e.g. Higher Level Stewardship, Entry Level Stewardship, English Woodland Grant Schemes, and the emerging Environmental Land Management System (ELMS).
- Business and organisation sponsorship e.g. as part of corporate social responsibility programmes.
- Endowments - A financial endowment is a transfer of money or property donated to an institution or Trust, which may come with stipulations regarding its usage.
- Charitable donations
- Landfill Communities Fund - The Landfill Communities Fund (formerly the Landfill Tax Credit Scheme) enables landfill site operators to claim tax credit for contributions they make to approved environmental bodies for spending on projects that benefit the environment. The environmental bodies are those enrolled by Entrust, the regulatory body for the scheme.
- Habitat Banking (e.g. for biodiversity net gain, or nitrate/phosphate offsetting) - Revenues from development schemes requiring off-site mitigation are collected into a central fund and invested in specific habitat creation/restoration projects.
- Carbon offsetting – This is a means of compensating for all or part of unavoidable carbon emissions made by businesses, organisations and individuals. A carbon offset fund could choose to invest in Green Infrastructure projects that absorb an equivalent amount of carbon dioxide and which are cost effective to deliver.
- Local Authority capital and revenue budgets
- Heritage Lottery Fund – provides funding for improving and sustaining a wide range heritage – including museums, parks and historic places, archaeology, the natural environment and cultural traditions.
- Third sector funding and contributions e.g. RSPB, Avon Wildlife Trust, Woodland Trust, National Trust, British Horse Society, The Forest of Avon Trust, voluntary contributions as part of community action and initiatives.

The table below provides more detail around some of the current funding opportunities available.

Table 15 - current funding opportunities available for improving GI

Scheme owner and scheme name	Outline of scheme	When to apply for funding	Webpage
The Tree Council: Branching Out	Funds available to assist schools and community groups proposing to undertake well-planned tree and hedge planting projects this winter. This includes grants of between £300 and £1500. Planting is to take place between November 2020 and March 2021.	There is no deadline for applications, but applicants must ensure that they can plan and execute their project, and claim the funding upon completion, by the end of March 2021.	https://treecouncil.org.uk/take-action/grants-for-trees/
Forest of Avon Trust Trees for Climate Fund	The Trees for Climate programme led by England's Community Forests has been funded out of the £640 million Nature for Climate fund.	There is no deadline for applications	https://forestofavontrust.org/
Woodland creation grant: Countryside Stewardship	The government is offering grants of up to £6,800 per hectare to help landowners, farmers and foresters expand existing woodland cover.	Ongoing	https://www.gov.uk/guidance/woodland-creation-grant-countryside-stewardship
MOREwoods	A Woodland Trust scheme available for landowners to plant woodlands of more than 500 trees. 75% of the cost of the trees, tree protection, advice and guidance. Can also cover costs of up to 60% of a contractor to plant the trees for you for woodland creation over 1ha. Min size 0.5ha with 1,000 – 1,600 trees per ha (but can be made up of multiple smaller blocks of at least 0.1ha each).	Ongoing	
Tesco's 'Bags of Help' scheme	Grants of between £1,000-£4,000 to fund community improvement projects , including play	Ongoing	https://www.groundwork.org.uk/apply-for-a-grant/national-

Scheme owner and scheme name	Outline of scheme	When to apply for funding	Webpage
	areas, allotments and school grounds.		grants/grants_tesco-community-grants/
SUEZ Communities Trust – Landfill Communities Fund	Provides funds to not-for-profit organisations to undertake work that is eligible under the Landfill Communities Fund (LCF), which includes public amenities, biodiversity and historic sites.	Ongoing	https://www.suezcommunities.org.uk/apply-for-funding/england/
ENTRUST funding – Landfill Communities Fund	Funding for organisations enrolled with ENTRUST. Projects can include the provision or improvement of a public park, promotion of biodiversity and more.	Ongoing	https://www.entrust.org.uk/landfill-community-fund/
Power to Change	Provide grant funding to community lead business that are tackling challenges in their local area, which have included community gardens.	Ongoing	https://www.powertochange.org.uk/
idverde UK – Community Investment Fund	Communities can apply for up to £1,000 towards projects which empower people to improve green spaces, enhance the environment and boost wellbeing. Both financial and physical resources will be provided by the funder, green space contractor idverde UK, and is only available in places where the company already works – which includes North Somerset (WsM).	Ongoing	https://www.spacehive.com/profile/idverdeicif

APPENDIX 7: EXAMPLES OF NATURAL CAPITAL ACCOUNTING TOOLS

Some examples of recent natural capital tools are summarised below (these are not recommendations).

OrVAL – Outdoor Recreation Valuation Tool (released 2018)¹: Freely accessible web-based tool that predicts the number of visits to existing and new greenspaces in England and estimates the welfare value of those visits in monetary terms. Users can examine the recreational value of existing green space and test how the number of visits and the value of these visits might change if the land cover was changed, or if new green spaces were created. Results can be split by socio-economic group. It was developed by the University of Exeter and funded by Defra.

For North Somerset, the tool estimates the following estimated annual number of visits and welfare values:

Welfare Values: ID:361 : **£69,564,361 (Per Year)**

Estimated Visits: D:361 : **19,079,193 (Per Year)**

The annual welfare value for individual parks and open spaces included within the ORVal tool for North Somerset is shown in Figure 38. The yellow open spaces have been estimated to have an annual welfare value of up to £250k, the orange ones up to £1m, and the red ones up to £8m.

of ecosystem services delivery through smart design. It was developed by Consultancy for Environmental Economics & Policy (CEEP).

This publication is available in large print, Braille or audio formats on request.

Help is also available for people who require council information in languages other than English.

Please contact 01934 426 775



Green Infrastructure Strategy Action Plan – progress update

Transport Climate & Communities Scrutiny Panel

30th September 2023

Esther Coffin-Smith, Natural Environment Manager

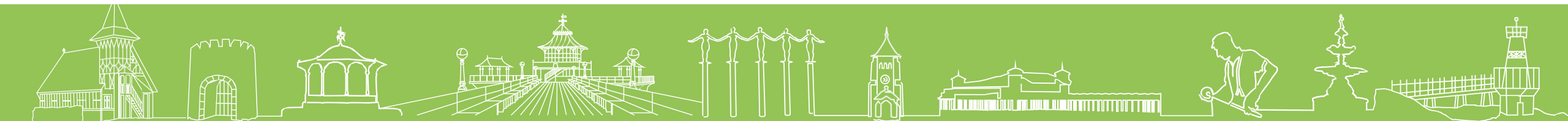


GI Strategy Action Plan - overview

GI Strategy themes

- Page 226
- Access Networks
 - Biodiversity & Habitats
 - Development Integration
 - Greenspace Stewardship
 - Trees & Woodland
 - Flood Risk & Water Quality (to be covered at a future Panel)

The action plan contains 54 separate actions

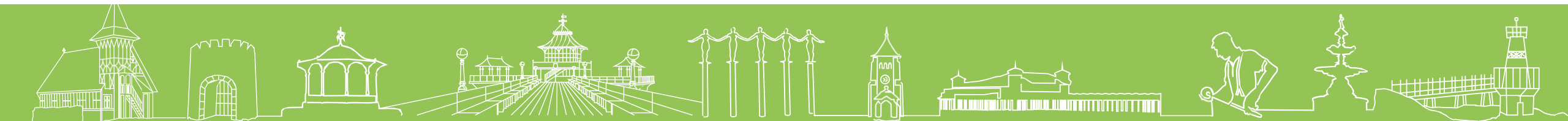


Access Networks

- Publish the Rights of Way Improvement Plan – this is now on the [Rights of Way pages](#) on our internet site.

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Overlay the PROW network with the GI opportunity areas to identify gaps in the ROW network – this is included within the ROWIP action plan.



Biodiversity & Habitats

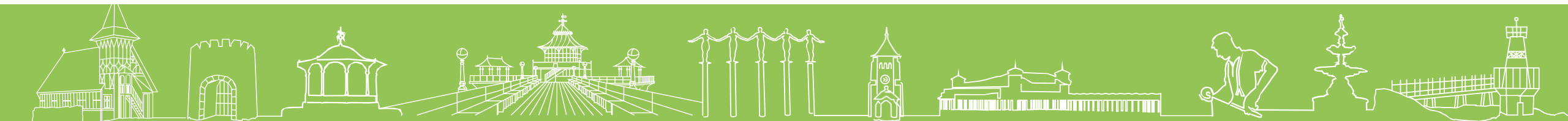
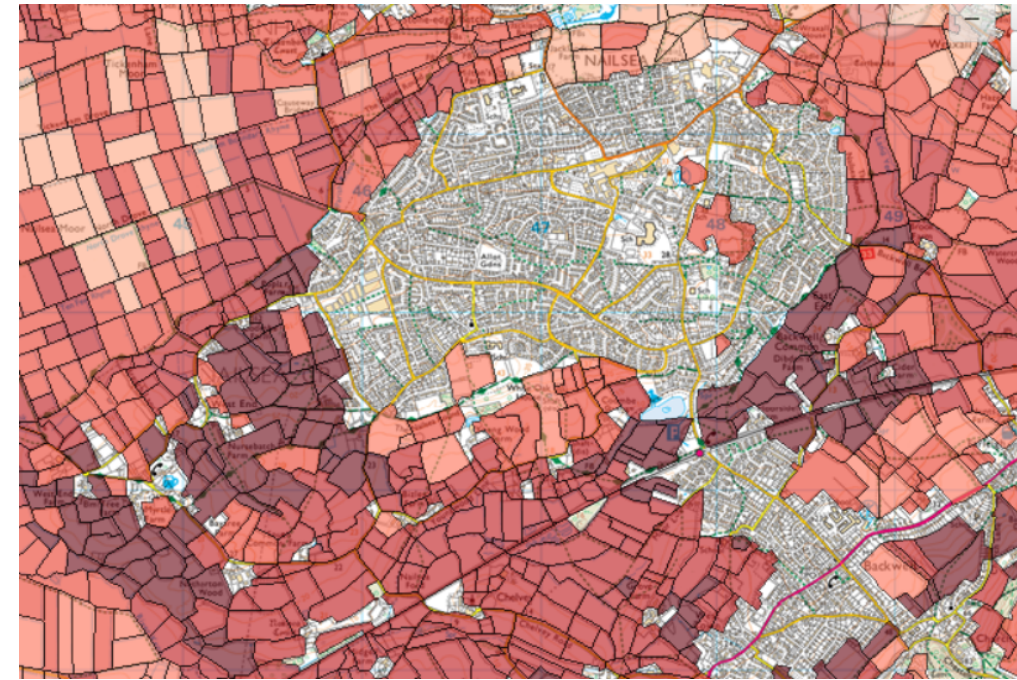
- *Prepare a strategic plan for improving biodiversity in the North Somerset Nature Park*

Commissioned UWE to model the land across NS for habitat and connectivity suitability and identify key locations to protect and enhance for the benefit of bats

Updating the Bat SPD to reflect the modelling and make reference to these strategic areas within the Local Plan

- *Develop improved habitats for greater horseshoe bats.*

Seeking land to purchase to create first Nature Park

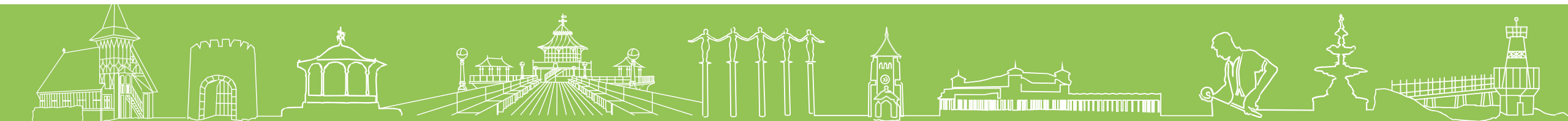
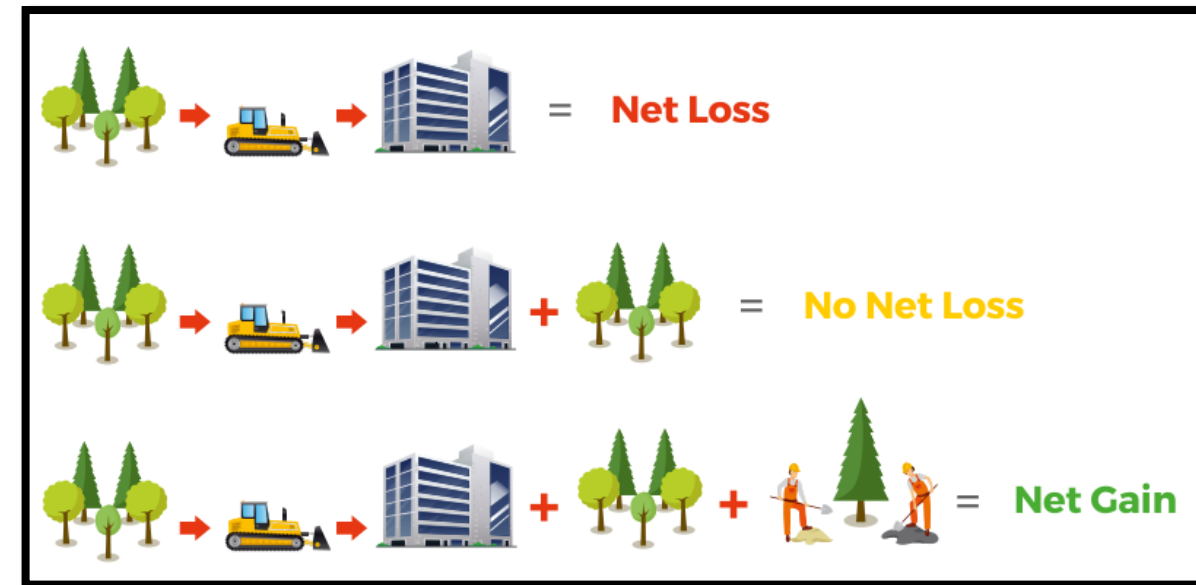


Biodiversity & Habitats

- *Delivering Biodiversity Net Gain (BNG)*

Planning support: Biodiversity SPD (inc. BNG requirements), additional Ecology Officer, legal support to draft S106 agreements

Supporting offsite BNG capacity within NS: assessment of NSC-owned land for the delivery of BNG units, creation of a habitat banking vehicle to allow the sale/management of BNG units on NSC land

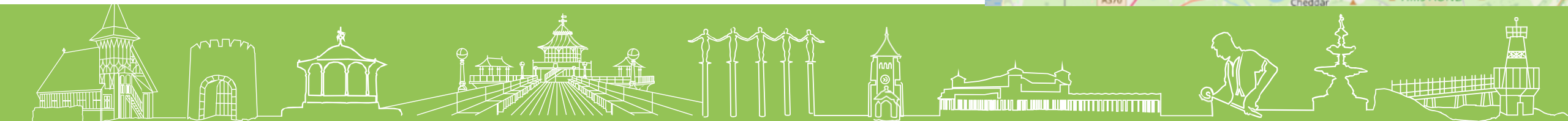
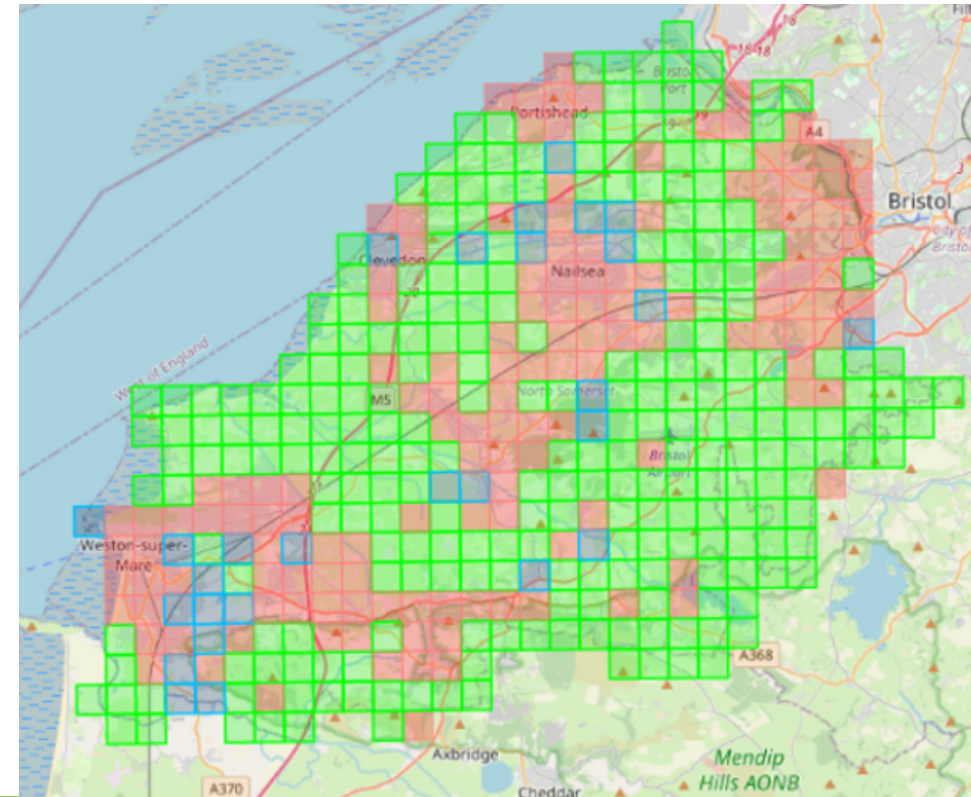


Biodiversity & Habitats

- *Create a citizen science project with the University of the West of England (UWE) to improve understanding of bat populations across North Somerset.*

3 survey seasons worth of data has been collected by working with volunteer residents/businesses to erect bat detectors. This data had fed into the modelling work UWE has completed.

A lottery bid has recently been submitted for funding for the next 3 years.



Development & Integration

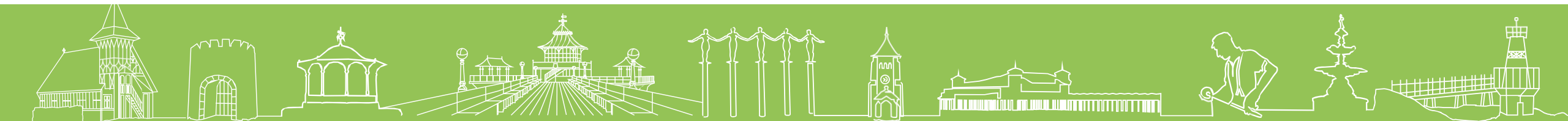
- *Mainstreaming green infrastructure*
- *Creating North Somerset Nature Parks for strategic bat mitigation.*

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281

The green infrastructure objectives and North Somerset Nature Park principles have been included in the Local Plan

- *Inclusion of Building with Nature Standards within the Local Plan*

These are encouraged through the draft Biodiversity Supplementary Planning Document.

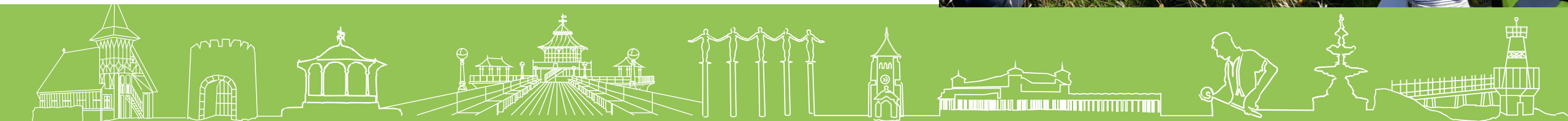


Greenspace Stewardship

- *Rewilding champions lottery project.*

This £100,000 grant funded project with Avon Wildlife Trust, delivered between July 2021 and November 2022, saw residents volunteering to measure biodiversity to determine the success of the council's rewilding efforts.

The project delivered 30 public engagement sessions, attended by 372 people and 70 survey sessions, attended by 139 volunteers totalling around 300 volunteering hours. 10 Rewilding Champions were recruited and are leading volunteers at some of our rewilding sites.



Greenspace Stewardship

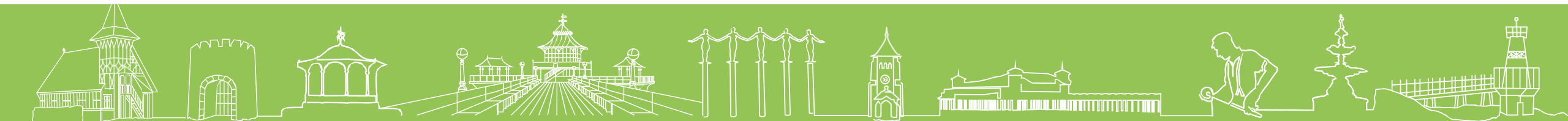
- *Worlebury hillfort lottery project.*

NSC applied for this funding but was unsuccessful. S106 monies have been secured from National Grid to undertake a smaller scale level of ash removal and ride creation.

Subject to staff capacity we will submit a new lottery application in 2024.

- *Complete an open space access assessment.*

This has not yet been completed due to staff capacity.



Greenspace Stewardship

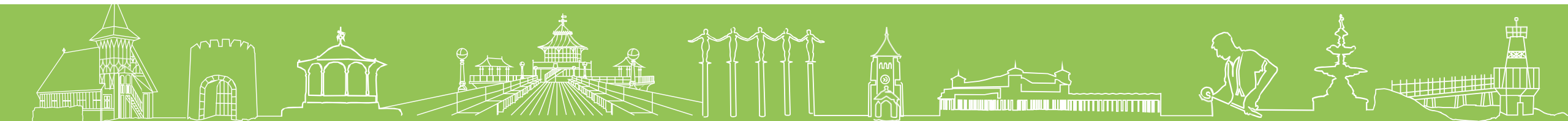
- *Infrastructure survey of parks and open spaces: to carry out a condition survey of parks an open spaces infrastructure to be completed by August 2022.*

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All survey protocols have been completed and a management system is being installed. Proactive inspections will commence in January 2024 following successful installation of the management system.

- *Parks improvement plan. Develop a strategy for our parks and play areas which reflects contemporary needs, enhances community engagement, considers new ways for delivery and raises more income.*

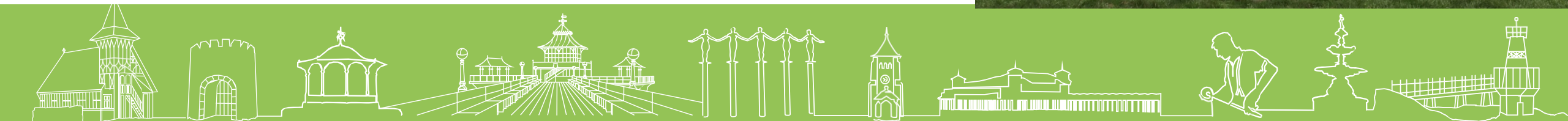
To be completed by December 2024



Greenspace Stewardship

- *Green Social Prescribing project.*

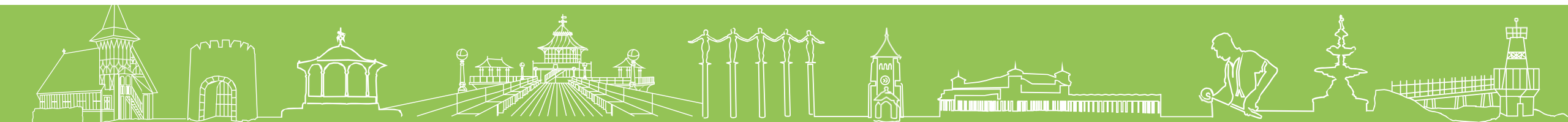
A UKSPF funded Ranger is in post seeking opportunities to bring green social prescribing providers into NSC parks and open spaces on NSC-led activities such as scrub clearance, tree planting, wildlife surveying, etc. for the benefit of wildlife and health and wellbeing.



Greenspace Stewardship

- *Great lakes project.*
 - Weston super Mare Marine Lake, MARLENS improvements and Pier Trust projects are complete.
 - Gig club storage and slipway improvements should be finalised by February 2024.
 - Portishead Lake Grounds improvements have been made to The Esplanade and Lake surround. An aerator has been installed to improve water quality. A project is underway to improve the café by 2025.

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Trees & Woodlands

- *Publish and deliver the Ash dieback action plan.*

This is complete with the Action Plan being published in September 2022.

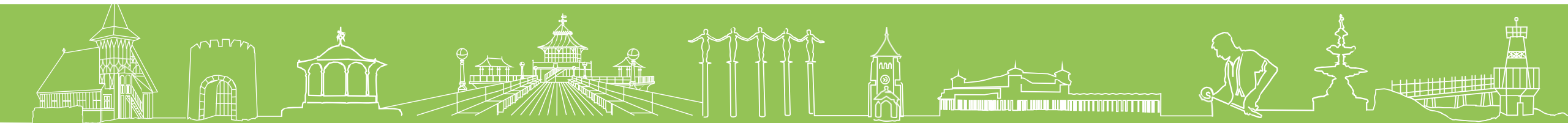
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New orchard planting.

The Defra-funded Wildlife and Woodland Expansion Officers are investigating opportunities for orchard planting as part of ongoing efforts to meet our 25% increase in canopy cover target by 2030.

NORTH SOMERSET COUNCIL

Ash Dieback Action Plan



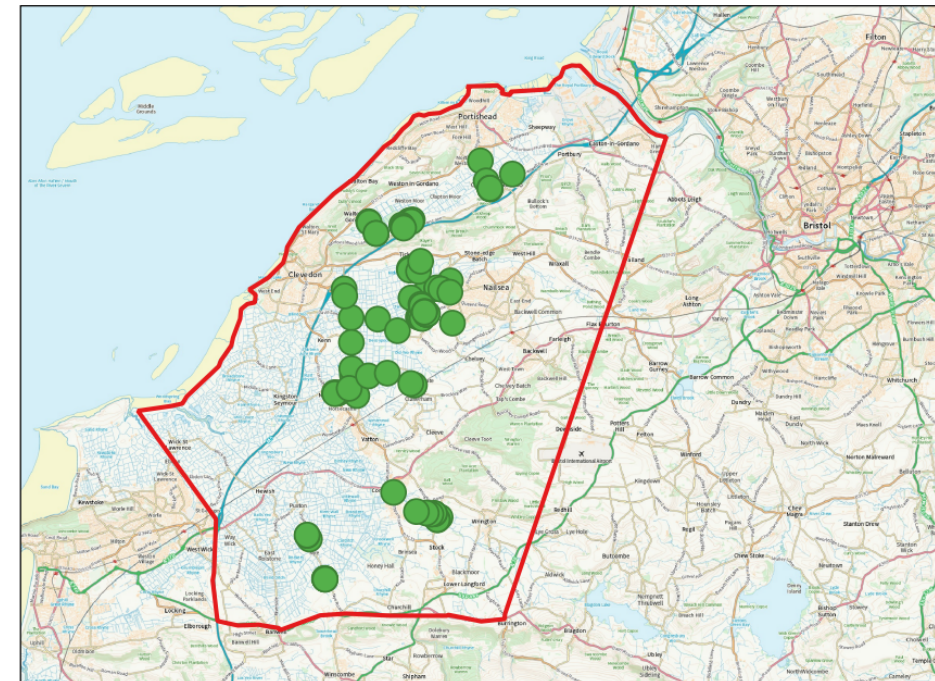
Trees & Woodlands

Iconic Landscapes - Tree Locations

- *Iconic trees; protecting our levels and moors trees.*

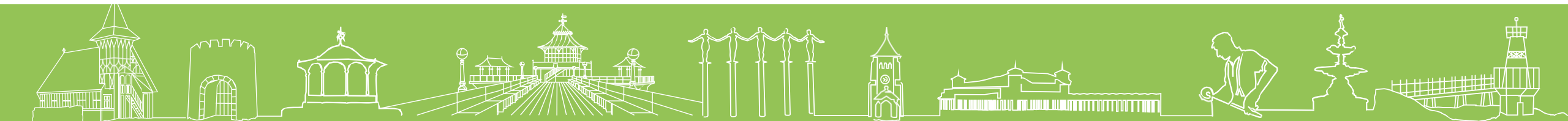
Page 238

These trees have been identified. Using s106 funds we are hoping to progress this with the Forest of Avon Trust to contact the landowners with advice on grants amongst other things.



LEGEND

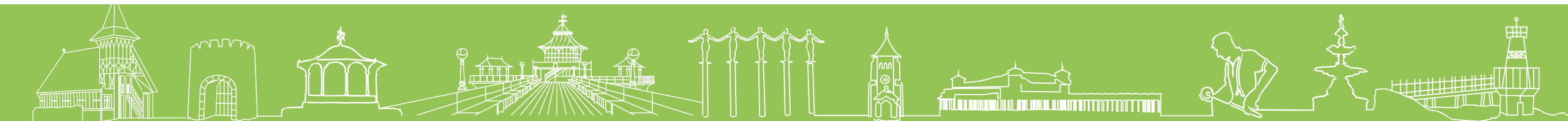
- Survey Area
- Trees



Any questions?

Progress against outstanding short-term actions together with medium term actions will be brought to the Panel again next year.

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North Somerset Council

Report to the Transport, Climate and Communities Policy and Scrutiny Panel

Date of Meeting: 30 November 2023

Subject of Report: A38 MRN progress update

Town or Parish: Various

Officer/Member Presenting: Jason Reading, Senior Project Manager

Key Decision: No

Reason:

Report is for information and scrutiny

Recommendations

For the Committee to note the contents of this report and provide feedback.

1. Summary of Report

The Outline Business Case for the MRN A38 project was submitted for approval to DfT in March 2022. In November 2023, DfT announced that the OBC had been approved and funding to commence and deliver the Final Business Case had been granted.

North Somerset Council has been liaising with key stakeholders including Somerset Council and Bristol Airport to ensure that the legal agreements are secured as the FBC commences.

Engagement with the market has also been carried out to maximise the interest from suppliers in delivering these works.

Local Contributions and DfT funding have been approved to deliver the FBC. The deliver of the FBC will produce detailed design drawings and construction costs for final approval from DfT and internal governance.

2. Policy

The provision of key enabling infrastructure and improvement of the transport network widely supports the Corporate Plan objectives and priorities most specifically within the priority of a Thriving and Sustainable Place. It also ties in with our Open and Enabling Organisation priority.

Such provisions also contribute to the following core strategy policies;

- CS1 Addressing climate change and carbon reduction
- CS2 Delivering sustainable design and construction
- CS10 Transportation and movement

- CS23 Bristol Airport

In addition, this scheme:

- Aligns to five MRN objectives set by the DfT
- Aligns with aims and objectives set out by Government in the economic, environment transport, planning and public health strategies
- Is prioritised for investment by the Western Gateway Sub-National Transport Body
- Supports the local strategies and policies of NSC and Somerset Council

3. Details

Background

In December 2017 the Government launched a consultation setting out proposals for the creation of a Major Road Network (MRN) to fund major road improvement schemes. The MRN forms a middle tier of the country's busiest and most economically important local authority classification 'A' roads sitting between the national Strategic Road Network (SRN) and the rest of the Local Road Network.

In December 2018 the Government announced the National Roads Fund comprising £28.8 billion between 2020 and 2025, £3.5 billion of which is expected to be spent on local roads. This announcement was supplemented with an MRN bid process for which eligible schemes could bid for funding.

As part of the above MRN bid process North Somerset Council (NSC) in partnership with Somerset Council (SC) submitted a Strategic Outline Business Case (SOBC) to the Department for Transport (DfT) in July 2019 for possible road improvements on the A38 MRN. From DfT's assessment the SOBC was approved to progress to the Outline Business Case (OBC) stage with funding from DfT and Section 106 confirmed and available for this next stage.

The OBC for the A38 MRN scheme was compiled with SC for joint submission to DfT in March 2022. The OBC follows the DfT's core business case process and is in the format of the Five Case Model, comprised of strategic, economic, commercial, financial and management cases. This centres around a proposed package of targeted improvements to the locations as listed immediately below on the A38 corridor, five of which are in North Somerset and the remainder in Somerset.

NSC targeted A38 improvements:

- Barrow Street junction safety scheme including improved bus accessibility to bus layby
- Barrow Lane / Hobbs Lane to Dial Lane active travel scheme providing cycle lane and improved pedestrian facilities together with road safety improvements,
- West Lane junction to Silver Zone roundabout improvements providing improved pedestrian and cycling facilities, with carriageway widening and provision of designed bus lane to reduce traffic congestion ensuring more reliable journey times for all users including public transport,
- Langford area active travel providing cycle lane and improved shared footway facilities, and
- Sidcot Lane to Hillyfields junction active travel providing cycle lane and improved shared pedestrian facilities.

SC targeted A38 improvements:

- Strawberry Line cycle and pedestrian crossing improvements at Shute Shelve (between Sidcot and Cross),
- Cross junction active travel and safety scheme,
- Rooks Bridge safety scheme, and
- Edithmead roundabout (M5 J22) traffic congestion relief supporting housing delivery.

The scheme objectives are to:

- Better connect local communities by Active Travel modes,
- Improve journey reliability times along the A38 corridor,
- Improve road safety for all travel modes,
- Provide environmental enhancements and reduce carbon generation from alleviating traffic congestion, and
- Support housing delivery and the regional economy with improved transport infrastructure around J22 of the M5 motorway (This objective only applies to SC).

To align with both Councils priorities and DfT MRN objectives, the various schemes proposed along the A38 have ensured that active travel, public transport, road safety and congestion alleviation with improved capacity would be secured through implementing the proposals detailed. The A38 MRN scheme has a strong base in providing active travel improvements and in improving journey reliability times on the A38. For each scheme element there are infrastructure improvements for cyclists, pedestrians and other non-motorised road users to better connect local communities. In removing pinch-points at certain locations on the A38, traffic congestion will be reduced benefiting all road users, including public transport generating more reliable journey times complementing the infrastructure improvements included for public transport.

The total scheme value in the OBC submitted in March 2022 was estimated at £25.2m covering the A38 scheme elements in both North Somerset and Somerset.

Following the submission of the OBC to DfT for approval in March 2022, in December 2022, while DfT were still considering OBC approval, they gave NSC & SC the opportunity to review the forecast costs for the scheme due to the impact of inflation. An analysis of the experienced and predicted inflation was carried out and concluded that the cost forecast had increased by £5.8m from £25.1m to £30.9m. This was approved in decision 22/23 DP423.

In January 2023, Bristol Airport were granted Planning Permission for the expansion of the airport. This confirmed the S106 funding for the Downside Road element of the A38 MRN scheme which is to be delivered by NSC. Within the S106 agreement, there is a requirement for Bristol Airport to have step-in-rights and have the option to deliver the Downside Road element should they wish at a later date. To accommodate this S106 clause, NSC works have been split out into 2 work packages. Work package B is just for Downside Road and Work Package A for the remaining schemes within North Somerset. This enables Bristol Airport to exercise their right to step in, should they wish while not compromising the delivery of the other A38 MRN scheme elements.

Funding allocation

The total cost of the scheme as calculated in December 2022 was £30.9m. This included delivering the Strategic Outline Business Case (SOBC), Outline Business Case (OBC), Final Business Case (FBC) and construction. If all business cases are approved, DfT has committed to funding 85% of the £30.9m. The remaining 15% of the total cost will be funded by Local Contributions shared between both Local Authorities. The share of Local

Contribution funding will be based upon the total cost of scheme elements within their authority area. This equates to an approximate percentage split of 65% and 35% respectively between NSC and SC.

The cost of FBC preparation will be 2/3rds financed by the DfT. This allocation will come out from the DfT's total scheme funding contribution of 85%. The remaining 1/3rd of FBC preparation cost will be financed by NSC and SC, coming from the total scheme cost Local Contributions of 15%. The split between Local Authorities will again be approximately 65% NSC and 35% SC.

If costs increase above £30.9m, DfT will not contribute to the overspend. This will have to be from additional Local Contributions.

Recent Activity

Due to the delay in DfT announcement for OBC approval, an opportunity was identified to resolve the business need to complete the Barrow Street Junction safety works. Following the award of BSIP funding, the BSIP team were able to improve on the MRN scope at Barrow Street and deliver the works within the BSIP budget.

In October 2023, the PM announced that money for HS2 was to be reallocated to projects across the country. This specifically mentioned the A38 MRN scheme in North Somerset. Later in October, it was also announced that schemes could have an uplift in funding from DfT.

In November 2023, NSC received a letter from DfT to say that NSC and SC were successful in their application for funding. NSC and SC have since raised a number of clarification questions to DfT.

Funding letter

The following provides a summary of key points within the DfT funding letter.

- Confirmation that DfT will provide a maximum funding contribution of £26.311 million towards the estimated total scheme cost of £30.955m, subject to conditions
- Funding will be made available for FBC development. Upon approval of the FBC, funding for construction will be released.
- NSC's MRN scheme could benefit from an uplift in government contribution of their costs based on the Outline Business Case stage.
- The scheme must be implemented in accordance with the scheme proposals as set out in your Outline Business Case
- Should the total estimated costs fall below £ 30.955m the Department's contribution will also reduce proportionately
- NSC will carry out an evaluation of the scheme

The following clarifications were made to DfT which include their response.

- The project is a joint project between NSC and SC, can the letter be amended and addressed to both NSC and SC?
 - In cases where there is more than one local authority, DfT expect one of them to take the lead and to be the grant recipient. We are unable to split grant awards to multiple authorities. To date NSC has been the leading authority and it is assumed this will continue unless otherwise stated.
- Is the NSC and SC A38 MRN scheme eligible for the uplift in DfT funding?

- DfT are considering whether NSC and SC will be granted an uplift in funding. The uplift (if confirmed) will be released upon approval of the FBC. The uplift could reimburse the local contribution for FBC costs and could replace the local contribution for construction costs, but details are to be decided.
- Can DfT advise on timescales re announcements of potential uplifts in funding?
 - DfT are not able to advise on timescales but are looking to get this out as soon as possible.
- Is there a new deadline for completing the works?
 - No, but DfT encourage the works to be completed as quickly as possible.
- Given the delay in announcing OBC approval, will DfT provide additional funding to cover the impact of inflation not currently accounted for in the £30.9m?
 - No, DfT will not be increasing their contribution for costs above £30.9m. At present DfT's contribution is 85% of £30.9m (£26.311m). This may increase up to £30.9m but not more.

Contract for Final Business Case Stage and Construction

The chosen procurement route for the A38 MRN scheme FBC development and construction will be a 2-stage Design & Build (D&B) contract. The detailed design will be an NEC4 Option A lump sum contract and construction will be an NEC4 Option C Target Cost contract. A break clause between Stage 1 and 2 is included, with instruction to proceed to Stage 2 subject to approval of the FBC by DfT.

Once NSC and SC accept the funding conditions outlined in DfT's letter received in November 23, the D&B procurement will be able to commence.

During the FBC preparation stage there will be further opportunity to refine the detail of the scheme elements to ensure they align with stakeholder priorities during the detailed design.

Next Steps

NSC are to assess the conditions of the letter and liaise with SC to confirm both authorities are in agreement with accepting DfT funding.

NSC are to confirm funding allocations for NSC's local contribution.

NSC will enter into an MOU with SC.

NSC will agree Terms of Reference with Bristol Airport.

NSC will seek approval to accept FBC funding in accordance with the financial regulations.

NSC to deliver the FBC.

FBC delivery

The OBC sets out a number of outcomes to be delivered in line with the scheme objectives. These are to be developed as part of the FBC. This includes developing alternative solutions to Barrow Street Junction to ensure outcomes and benefits identified in the OBC are still delivered.

Proposed programme

Activity	Programme
Submission of OBC	March 22

DfT funding announcement re OBC	November 23
NSC acceptance of funding	December 23
D&B procurement	January to May 23
Detailed design	May to December 24
FBC development	June to December 24
FBC submission	Winter 24/25
DfT approves FBC	Spring 25
Full Council approval of grant funding	Summer 25
Construction	Summer 25 to Summer 26

4. Consultation

An engagement exercise was undertaken as part of the scheme's OBC preparation, between April and August 2021 during which time internal and external stakeholders were briefed on the A38 MRN proposed scheme elements.

The following NSC stakeholders were included in that engagement exercise:

- Place Director and Directorate senior colleagues
- Executive Member for Assets & Capital Delivery
- Executive Member for Climate Emergency & Engagement
- Place Policy & Scrutiny Panel
- Ward Members captured in scheme areas
- MPs captured in scheme areas
- Parish Councils captured in scheme areas
- Parish Councils' Airport Association
- Internal Highways & Transport, Streets & Open Spaces and Planning & Heritage teams
- Residents and Businesses captured in scheme areas

The comments received from that engagement exercise have been considered as part of the scheme's ongoing design and planning. Public engagement will continue as part of the scheme's FBC development.

The Executive Member was briefed on 16th January 23 on the increases in Local Contribution funding due to inflationary pressures.

While NSC and SC have been waiting for DfT to approve the OBC, Cllr briefings have been ad hoc.

An Expression of Interest regarding the D&B contract was held in August 23 with contractors on the Gen4 Framework. 4 contractors expressed an interest to bid for both work packages with a further contractor expressing interest to bid for one of the work packages.

Bristol Airport and North Somerset have formed a working group with a focus on their S106 obligations, one of which relates to the delivery of the Downside Road junction works. The project team is in liaison with Bristol Airport and have circulated a draft Terms of Reference for comment, to ensure that S106 commitments and conditions are met. This will include details on provision of land to enable delivery of the scheme and payment schedules.

There has been and will continue to be on-going co-ordination with the BSIP and Banwell by-pass project teams. This is both in terms of highway network management as well as

lessons learned through contract management and resource allocation subject to the same supplier working different NSC projects.

5. Financial Implications

Costs

As of the OBC stage, the total costs for the scheme are currently forecast at £30.95m. This is split out as follows.

	NSC	SC	Total
FBC	£1,268,975	£787,899	£2,056,874
Construction	£18,208,319	£9,873,901	£28,082,220
Sub-Total	£19,477,294	£10,661,800	£30,139,094
SOBC	£815,000		
Total			£30,954,094

Note these costs currently include the cost to deliver Barrow Street junction which was delivered and funded by BSIP. It also excludes the impact of inflation due to the ~1 year delay in DfT approving the OBC.

Costs for all scheme elements will be updated throughout the development of the design, ensuring continued value for money in line with the schemes benefits and outcomes. Construction costs will feed into the FBC for DfT approval.

Funding

The current funding allocation for the whole scheme is as follows:

Source	Total
DfT	£26.311m
NSC	£3.111m
SC	£1.532m
Total	£30.954m

The current funding allocation for the FBC is as follows:

Source	Total
DfT	£1.37m
NSC	£0.46m
SC	£0.23m
Total	£2.06m

DfT's current funding allocation is confirmed through the OBC approval funding letter. This may increase subject to DfT decisions. Any change to funding allocation from DfT will be applied at FBC approval.

SC's funding allocation is to be secured through the agreement of the MOU.

NSC's contribution will be via Bristol Airports S106 contribution.

6. Legal Powers and Implications

An MOU between NSC and SC was in place for the delivery of the OBC stage. A similar MOU is currently being drafted for the delivery of the FBC stage. This will outline working arrangements and funding allocations.

NSC and SC will need to abide by the conditions of the funding letter by DfT. This letter is only up to completion of the FBC stage and does not commit to entering into the construction stage.

Upon completion of the D&B tender for both work packages, contract award decisions will be in accordance with NSC's Contract Standing Orders.

The works to deliver Downside Road will be tied into the Bristol Airports S106 agreement and as such will need to ensure that conditions are met, including planning requirements.

7. Climate Change and Environmental Implications

Reference to climate change and environmental impact the A38 MRN scheme improvements will focus on active travel provision, reducing traffic congestion, and improving journey reliability times. The scheme also includes improved bus infrastructure enabling better access to bus services and expanding travel choices.

To ensure that this scheme is compatible with NSC environmental priorities and other initiatives currently being undertaken the Sustainable Transport, Integrated Transport Unit and Bus Service Improvement Plan teams have been consulted throughout scheme development to ensure that the proposed targeted improvements along the A38 complement future plans. In addition, there has also been regular engagement and co-ordination with the Mass Transit and Banwell Bypass project teams ensuring that the MRN targeted improvements aligns and takes into account these other schemes and this co-ordinated schemes' approach will continue during the development of the A38 MRN scheme's detailed design and FBC.

A Members Task & Finish Group (T&FG) was established in December 2021 to provide feedback and following inputs on the A38 MRN scheme with particular focus on active travel, carbon reduction and biodiversity.

NSC aims to be carbon neutral by 2030, following declaration of a climate emergency in February 2019. All supply chain partners will play an active and key role in ensuring that NSC's ambition of carbon reduction and bio-diversity net gain is secured and achieved through this scheme. To align with the approach taken across NSC's major infrastructure projects the A38 MRN scheme's design and delivery shall align with PAS2080:2016 Carbon Management in Infrastructure principles.

8. Risk Management

Risk management throughout the delivery of the project will be carried out via number of different methods. A risk register has been established following a number of risk workshops with project team stakeholders. This will be updated following completion of a contractor being appointed. Risks will be a standing agenda item on the contractors monthly progress meetings with risk workshops regularly scheduled. Early Warning meetings will be held to ensure that risks are quickly identified and mitigated.

9. Equality Implications

Have you undertaken an Equality Impact Assessment? Yes

An initial screening exercise has been carried out to identify protected characteristics that the Equality Act 2010 requires to be considered in relation to the scheme's proposals. An Equality Impact Assessment has been undertaken as part of the scheme's OBC. This will be updated once further design details are confirmed, and prior to the scheme's FBC submission to DfT.

10. Corporate Implications

Accepting the funding conditions will commit NSC and SC to delivering the design stage (FBC). This is in support of a wide number of NSC, SC and government policies.

11. Options Considered

Do not accept funding to progress the A38 MRN scheme to FBC submission stage. – propose to reject

Should the DfT FBC grant funding not be accepted then this would jeopardise the opportunity to receive future DfT funding for much needed improvements along the A38 corridor. The current issues on the A38 in which this scheme aims to improve would remain to be addressed putting additional demand on existing NSC funding. Furthermore, non-acceptance of the DfT grant would also cause reputational damage with the DfT (and SC) as the DfT have provided funding to prepare the scheme's OBC and so could adversely affect future opportunities in working with the DfT on this funding stream and the ability to deliver such major road improvement schemes within NSC.

Author:

Jason Reading

Appendices:

None

Background Papers:

Director Decision 18/19 DE 410: Major Road Network (A38) - Outline Business Case.

Director Decision 19/20 DE 390: Major Road Network (A38) - Outline Business Case (OBC) Award of Contract.

Director Decision 19/20 DP 293: Major Road Network (A38) - Outline Business Case (OBC) Variation to Consultant Contract.

Executive Member Decision 21/22 DP 270: A38 Major Road Network Scheme Outline Business Case Submission and Local Contribution Funding.

Full Council approval on 9th November 2021 of the Commissioning Plan for the Design & Build Contract of the A38 Major Road Network (MRN) scheme and associated Professional Services.

Director Decision 21/22 DP 284: Contract Award for A38 Major Road Network (MRN) Procurement Support.

Executive Member Decision DP 22/23 95: Procurement Plan for Major Road Network (MRN) Design and Build Contractor.

Executive Member Decision DP 22/23 108: Procurement Plan for consultants to undertake the Full Business Case (FBC) for the A38 Major Road Network (MRN) scheme and act as Employer's Agent for the Design and Construction phases.

Executive Member Decision DP 22/23 423: Approval of NSC additional local contribution funding for the A38 MRN scheme due to inflationary cost increases

Transport, Climate and Communities Policy and Scrutiny Work Programme November 2023

(to be updated following each Panel meeting)

The Panel will consider issues of significant public concern, areas of poor performance and areas where Members think the Council could provide better value for money. This is a “live” document and is subject to change as priorities or circumstances change.

Section One – ongoing & scheduled panel working groups.

Topic	Reason for scrutiny	Method of scrutiny and reporting process	Timeline	Progress	Contact
Waste	To engage with the development and delivery of waste policies and services	Steering Group – Regular meetings to be arranged	SG met on 20/11/23		Gemma Dando
Community Safety	To engage with the promotion and delivery of Community Safety policies, services and related projects and services in NS	Steering Group – Regular meetings to be arranged	SG met on 08/11/23		Howard Potheary
Highways and Transport	To engage with the development and delivery of Highways and Transport policies and services	Steering Group – Regular meetings to be arranged	SG met on 12/10/23		Bella Fortune
Support Services Procurement	Scrutiny through 2-year transition to the new arrangements	Steering Group SG to meet bi-monthly aligned with informal exec officer updates with wider member engagement in advance of milestone decisions.	All Cllr briefing 03/09/23 First SG to meet on 15/12/23		Simone Woolley
Leisure strategy	To keep review and inform the direction of travel for the leisure provision business cases, especially Backwell/Nailsea.	Informal working group	TBA		Karlie Philips
Weed Management	To review NSC weed management policy and practice together with alternative approaches; and engaging with local stakeholders with the aim of contributing to shaping future policy in this area	Inquiry Day	February 2024		

Section Two – briefings, workshops, and informal panel meetings. Outcomes may, with Chairman’s agreement, generate panel agenda items (for inclusion in S4 below) or, with panel agreement, be escalated to S1 above:

Topic	Reason for scrutiny	Date	Outcome	Contact
BSIP capital delivery	Update on the capital programme	26/07/23		Bella Fortune
Anti-Social Behaviour Plan	Update on the new plan with particular reference to new guidance on littering and fly-tipping (new Govt Guidance)	28/07/23	Further updates on the Plan to be arranged	Howard Pothecary
Waste Contract	For Panel feedback: announcement of food waste treatment facility contract award and details of upcoming commissioning / procurement of new garden waste and residual top-up treatment facility contractors	01/08/23	Further update to be arranged for 20/11/23	Gemma Dando
Moving Traffic Violations	For panel engagement on proposal to Sept Executive on adopting Moving Traffic Enforcement Powers	08/08/23	Panel broadly supportive: received assurance on staged implementation of enforcement and that each proposed enforcement scheme would only be in place until acceptable compliance reached	Darren Coffin-Smith
EV Fund Commissioning Plan	Panel feedback on commissioning plan for the delivery of electric vehicle charging infrastructure in NS	04/09/23	Panel broadly supportive: received assurance on the sufficiency of Council control over standards compliance; ensuring siting in rural/economically deprived areas; and grid capacity	Christian Fletcher
Support Services Contract	To feedback on Support Services 2025 Commissioning Intentions prior to report to Council on 19 th September	07/09/23	Members provided feedback	Amy Webb/Stuart Anstead
Biodiversity Net Gain	For Members engagement on draft Biodiversity and Trees SPD prior to public consultation	13/09/23	Members provided feedback. Panel to be updated following the consultation period.	Esther Coffin-Smith/John Flannigan

Housing Infrastructure Fund	To update and hear feedback from Members on: Banwell Bypass (BB) Project Dashboard and programme; BB Landowners RAG map and Land acquisition: Winterstoke Hundred Academy Expansion Project Dashboard	27/09/23	Next meeting on 30/10/23	Sam Byers, Alex Fear, Katie Park, Shannon Rickards
Support Services Strategy update	For feedback on: Customer Service Strategy action plan implementation; Digital First, telephone first and website usability; and customer access/touchdowns and Council hubs	03/10/23	Panel provided feedback and agreed a follow-up meeting to be arranged to address digital exclusion issues	Simone Wooley
Capital Programme Risk Management	To update Members on Capital Programme risk management	05/10/23	Members provided feedback	Amy Webb
Leisure Contract extension	To engage with members on proposed Legacy Leisure contract extension ahead of Council decision	12/10/23	Members provided feedback – broadly supportive of proposal	Karlie Philips
Waste Contract Briefing	To consider: Garden Waste charges, response from Government on simpler recycling and update on Quatro trial	20/11/23		
Library Transformation Proposals	Proposed joint scrutiny engagement with CYPS	Jan 2024		
Budget Scrutiny	TCC All Councillor budget scrutiny session	Dec 2024		
Flood risk Strategy	Proposed briefing on DEFRA national pilot project	TBA		
Metrowest	Portishead Rail line – proposed briefing late December or 4/5 January ahead of January report to full Council	TBA		

Section Three - agenda reports to the Panel meetings as agreed by the Chairman. This section provides for the forward planning of agendas and a record of panel meeting activity.

TCC 20 July 2023

Report Title	Purpose of Report	Outcome (actions)	Contact
Work Plan	To discuss TCC role and remit; and agree in outline the work plan of the Panel going forward	Plan to be further worked up in the light of discussions	Leo Taylor
Update on WESTlink bus service	To provide update on the introduction of the WESTlink Service following 3-month review	Members provided feedback and keep under review	Carl Nicholson/ Louis Mertens
MTFP/Budget Monitoring and Panel engagement	To summarise the Council's proposed timeline and process to ensure delivery of the medium-term financial plan (MTFP) for 2024-2028 and draft revenue budget for the 2024/25 financial year, providing an opportunity for the Panel to feedback on how the communication and engagement aspects of the plan should be delivered and how the MTFP process should be aligned with the Policy and Scrutiny Function	Members fed back on the discussion points proposed in the report	Melanie Watts
Climate Action Plan	To provide update on progress against actions of the Climate Emergency Strategy and Action Plan	Members fed back on progress and re-endorsed support for the net zero carbon by 2030 commitment through the actions set out	Victoria Barvenova

TCC 30 November 2023

Report Title	Purpose of Report	Outcome (actions)	Contact
Rights of Way Improvement Plan	To consider progress made on the Rights of Way Improvement Plan with recommendation that progress be reviewed annually thereafter		Esther Coffin-Smith
Green Infrastructure Strategy	To review progress made on the Green Infrastructure Strategy Action plan and to review progress annually thereafter		Esther Coffin-Smith

Capital Programme management (timing of projects) and MTFP	To set out progress update on the actions of the Projects and Property team regarding delivery of the ten-year SAMP programme		Alex Fear/ Jenny Ford
A38 Major Roads Network (MRN) Progress update	To update the Panel on progress		Jason Reading

TCC 29 February 2024

Report Title	Purpose of Report	Outcome (actions)	Contact
DRIVE initiative (Domestic Abuse perpetrator programme)	Update Members on delivery phase of the project (review impact etc)		

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Section Five - Recommendations - Response from Executive Member

Area for investigation/ Recommendations	When were the recommendations to the Executive agreed?	Expect answer by (first panel meeting after recommendations were submitted)

Section Six - Progress and follow-up on implementing Panel recommendations

Panel Recommendation	Date of response	Actions – implementation progress

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