love every drop
anglianwater

A proposed reservoir in Lincolnshire

Phase two consultation – main site design brochure

May 2024

Content

A guide to our documents

This booklet is one in a suite of documents that we've prepared to help people understand more about our latest proposals for a new reservoir in Lincolnshire.

Scan the QR code below with your phone's camera or visit our website at **www.lincsreservoir.co.uk/documents** to view these documents.

SUPPORTING INFORMATION	
A guide to our proposals and phase two consultation	An overview of our phase two consultation, with more information about what we're consulting on, where to find out more about our proposals and how you can have your say.
Project fact sheets	Supporting information about our approach to a range of topics and themes that we know are important.
RESERVOIR	
Phase two consultation – main site design brochure	**This booklet** – Information on the emerging design for the main reservoir site and the factors we considered to reach this point. This provides information about the initial opportunities for the features it could include, and how it is likely to operate.
Main site design report	An explanation of the emerging design for the reservoir site, and how this was developed.
ASSOCIATED WATER INFRASTRUCTURE	
Phase two consultation – associated water infrastructure proposals	Information about our proposals for drawing available water from the sources we've identified, transferring water to the reservoir, treating it, and supplying it to customers. This explains the infrastructure we may need, and the preferred options we've identified at this stage.
Options appraisal report	An overview of the options appraisal process that we have been through to identify the preferred options and sites for the associated water infrastructure. This explains the four stages (Stage A to D) of our appraisal process, how the options that were progressed for detailed assessment compared to one another, and the different combinations we assessed to identify the proposals we're taking forward at this stage.

Please note: this is an indicative image and the design may change as our proposals develop.

Our vision and plans for a new reservoir

Anglian Water is proposing a new reservoir in Lincolnshire to help meet the growing demands on water supply in the East of England.

The new reservoir is at the heart of a whole new water supply project that will help secure a reliable water supply for generations to come.

When there is available water in rivers that would otherwise drain to the sea, we would draw that water and transfer it to the reservoir using new and existing infrastructure and waterways. The reservoir will store the water for when it's needed.

Having this new water resource will reduce demands on sensitive sources such as chalk streams, helping us to protect and restore the environment. It will make us more resilient to a changing climate, reducing the impact of droughts while helping to manage river levels in wetter periods.

The proposed reservoir is south-east of Sleaford, about halfway between Grantham and Boston, near to the villages of Helpringham, Scredington and Swaton.

Our vision for the project goes beyond simply creating a new public water supply. This is a significant investment in England's water infrastructure and a once-in-a-generation opportunity to deliver lasting benefits for people, place and the environment.

Where possible, we will consider ways to include features that local communities would value and use. We will explore opportunities that could deliver ecological benefits and promote sustainability.

We will also consider what new opportunities there are to teach future generations about how water shapes our lives and the environment.

Wider opportunities

Many of Anglian Water's existing reservoirs, such as Rutland Water and Grafham Water, are great places to explore, a haven for wildlife, and provide opportunities to learn and get closer to nature. Our hope is that the new reservoir can deliver benefits just like these.

Through our engagement with regional partners and stakeholders, it's clear that others also want us to think about how the reservoir could enable separate, wider opportunities beyond those we hope to create from the reservoir itself.

We're exploring exactly that, through working together with others that share our ambition to bring environmental, social and economic prosperity to our unique region.

To see how we are considering wider plans for the region, read the **guide to our proposals and phase two consultation brochure**, available online at **www.lincsreservoir.co.uk/documents**

What the project includes

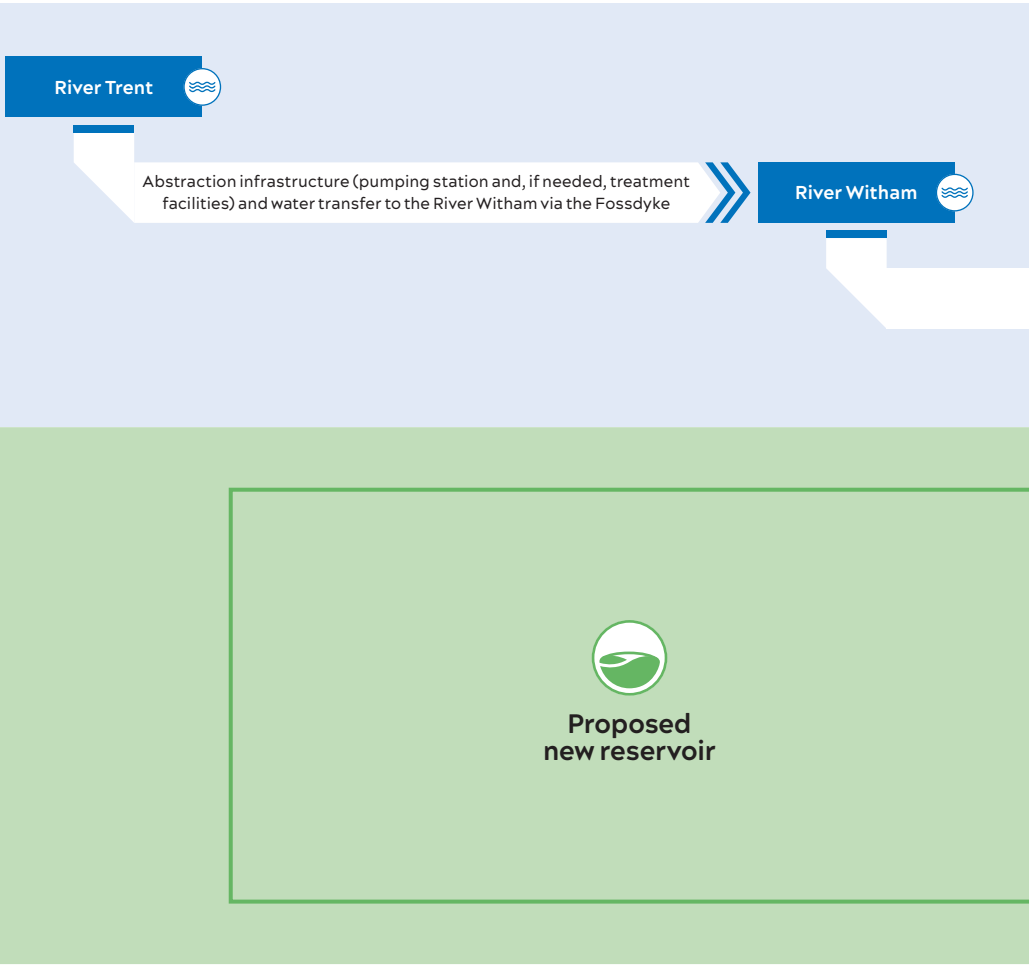
This diagram shows what we're currently proposing, and how all these parts fit together to create a new, major public water supply resource.

Everything in **green** is about the main reservoir site itself and how we would likely operate the reservoir. This is all explained in this document.

Our proposals for everything in **blue** and **purple** are explained in another document – our **associated water infrastructure brochure**.

Provide feedback on our proposals for the associated water infrastructure

To find out more about our plans for getting water to and from the reservoir, scan the code with your phone to see the **associated water infrastructure brochure** or visit the website link to our document library **www.lincsreservoir.co.uk/documents**



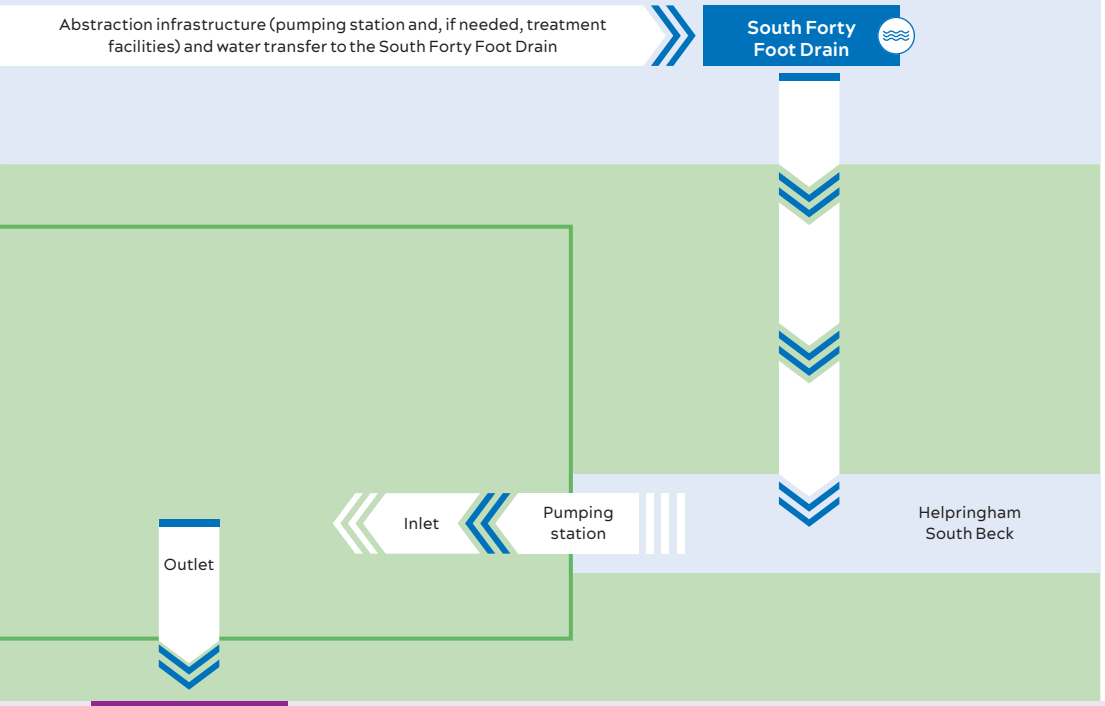
Water supply infrastructure

The infrastructure we need to treat the water stored at the reservoir and supply it to homes and businesses. This includes a new water treatment works located at the reservoir, and the underground pipelines to transfer the treated water to Anglian Water connection points for supply.

We may need to build a new service reservoir at each connection point to help us put the water into the supply network.

Key

- The proposed reservoir
- Water sources
- Connection points
- Water treatment works



Water sources infrastructure

The infrastructure needed to draw water from each source. This includes equipment to take in water flows, pump the water and, where needed, treatment facilities to remove impurities and manage water quality.

This also includes underground pipelines to transfer water to the reservoir, and the routes to transfer water into the reservoir using existing open channel waterways.

The reservoir site

Our emerging design for the reservoir, including opportunities for recreation, wildlife, nature and other features, and how we would likely operate the reservoir.

This also includes areas of land in the vicinity of the reservoir we could need for environmental mitigation and enhancement, construction, and wider uses.

The factors we considered

We've considered many different factors in developing an emerging design for the reservoir – all of which have influenced our ideas for the features it could include.

Indicative design principles

An initial set of project specific design principles which guide our plans for how the reservoir could add value and make a positive contribution for people, place and climate.

Operational requirements

The infrastructure we need to operate the reservoir, including an inlet, outlet tower (to draw water from the reservoir) and pumping equipment that moves water around the reservoir. This also includes safety requirements, monitoring equipment and many other features.

Engineering needs

The engineering requirements to ensure the reservoir meets the required design standards and is safe to operate, including embankment integrity, height and profile. This also includes how it would be built.

Economic

The costs for the reservoir over its whole life cycle – from planning and building through to its ongoing operation, including the need to deliver value for money for our customers.

Phase one consultation feedback

Feedback from land and property owners, communities and stakeholders to our phase one consultation on features they hoped to see included, and ideas to manage any impacts that have been raised.

Environment

The effect on natural environment features such as nature conservation sites and our ideas for how we could use the reservoir to encourage biodiversity and support the environment.

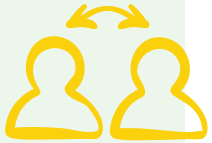
Landscape and local setting

The effect on the local landscape character, including views and surrounding communities, plus our ideas for how the reservoir could sit thoughtfully within its setting.

Integration with associated water infrastructure

How the reservoir connects to the infrastructure we need to bring water to the reservoir and from it into supply, and how these connecting features could be used as potential opportunities in the design.

Connection with surrounding communities



How local communities and visitors will travel to and from the reservoir, and different methods of doing this such as walking, cycling and boating.

Carbon

The carbon emissions related to the construction of the reservoir, ways in which we'll look to achieve water industry targets to be operationally net zero by 2030, and exploring opportunities to generate renewable energy at the reservoir.

Maximising value through design

In developing an emerging design for the reservoir, we have considered ways that these factors could support one another, for example:

- as we're considering ways to enhance the environment, does that provide opportunities to bring people and nature together?
- does the need to move water around the reservoir for operational purposes create opportunities for wetlands or recreation at the same time?
- with the need to build the embankment to meet engineering requirements, can we use that to integrate with local surroundings and manage visual impacts?

These are just some of the examples of how different elements could interact in how we develop the design.

The reservoir will meet its fullest potential if we can identify ways to get all these things working together.

Phase one consultation feedback

For more information about how we have considered and are responding to the feedback from our phase one consultation, please read our **main site design report** online at **www.lincsreservoir.co.uk/documents**

Developing the emerging proposals

Our journey to develop an emerging design for the reservoir has included several stages to consider and test different ideas and options.

We've completed a range of activities to help inform our proposals, including:

- surveys in the area to fully understand the landscape shape and character
- researching the history of the region and the changing nature of the area, including the influence of people in draining and managing the Fens
- assessing the wider region and what existing opportunities there are for access to open, green spaces and water, and how people travel around and to the area
- different shapes and approaches to the reservoir and what opportunities these could provide for recreation, wildlife, and other benefits
- operational requirements, including the embankment height and profile and how we could use this in the design to reduce impacts and create opportunities

All of this, and much more, has shaped our thinking.

Working with Stakeholders

Part of developing our emerging design has been sharing our early work with stakeholders, whose knowledge and understanding of the local area is valuable. This has included local authorities and those responsible for waterways, the environment, the historic and cultural setting of the area, and other important factors.

We also shared our ideas with an independent design review panel – a group of specialists with expertise in placemaking and planning.

This independent review was a key step in evaluating our early work and making sure it was in keeping with National Infrastructure Commission's principles for good design, and planning policy.

Through this stakeholder engagement, different elements of our early work were identified as being good opportunities to take forward into a single emerging design.

Find out more

For more information about our early development work, the different options we explored, and the feedback we received from stakeholders, please read our **main site design report** online at **www.lincsreservoir.co.uk/documents**

Overview of the process we're following

The emerging design will change as we review our work based on further assessments, feedback received, and the engineering and technical requirements of operating the reservoir.

The emerging design is therefore not fixed at this stage and more work is required to establish the land uses that will be included in our application for development consent.

STEP 01

- Develop broad design principles and concept
- Phase one consultation on design principles and concept

STEP 02

- Assess feedback from phase one consultation to influence emerging design
- Identify engineering and operational requirements for the reservoir
- Site and regional assessments, surveys and investigations
- Develop initial site-specific design principles
- Create design options based on feedback, engineering requirements, and initial site-specific design principles
- Options appraisal with specialist stakeholders and independent design review panel
- Develop emerging design for consultation

WE ARE HERE

- **Phase two consultation on emerging design**

STEP 03

- Assess feedback from phase two consultation to consider for ongoing design
- Preliminary environmental assessment
- Consider design in response to environmental assessment, phase two consultation feedback and site and regional assessments, surveys and investigations
- Emerging design appraisal with independent design review panel
- Develop proposals for further consultation

Operating the reservoir

We will need additional infrastructure that will fill, operate and draw water from the reservoir including pumps, inlets, and an outlet tower.

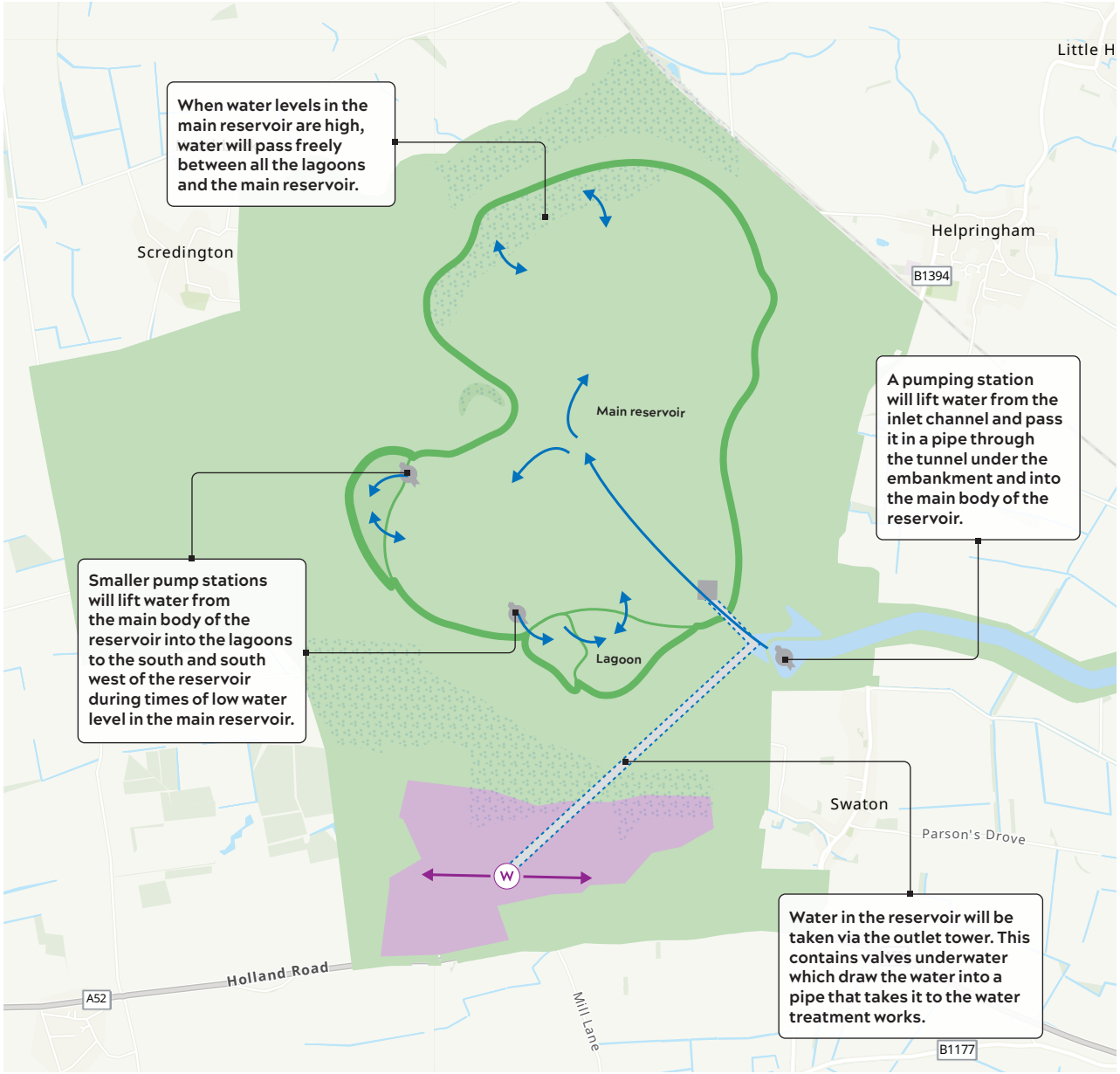
We have considered these components and their potential location when developing the emerging design.

In our emerging design:

- Water would enter the main reservoir site from the inlet channel connected to the South Forty Foot Drain in the south east corner, where it would be connected to the test pond.
- In the open water recreation lagoon to the south and the ecological lagoons, the water level could largely remain consistent, while the reservoir levels fluctuate throughout the year. Controls would release water from the lagoons into the main part of the reservoir.

Key

- Indicative boundary for reservoir site
- Emerging design for reservoir shape
- Water transferred to reservoir
- Treated water transferred into supply
- Wetland opportunities, as shown in emerging design
- Land areas for water treatment and supply infrastructure
- Water treatment works
- Pumping station
- Outlet tower
- Outlet pipe



Managing safety at the reservoir

We are designing the reservoir in line with the latest national and international industry guidance and standards, and the legislation set out in the Reservoirs Act 1975.

This sets the requirements for good design, construction, surveillance and monitoring to ensure the integrity of the embankments. The design is also being developed to be resilient to anticipated future climate events, such as the potential for sea level rise or more extreme weather events.

While the failure of an embankment, designed and constructed to current standards, is a highly unlikely event, a clear plan for managing emergency situations is a further vital part of operating the reservoir. In addition to high quality design, construction and surveillance, a requirement for the reservoir is to be able to lower (in a controlled way) the reservoir's water level quickly in the event of an emergency (drawdown).

We are in the early stages of developing the plan for how the reservoir will draw down in the event of an emergency. Our emerging work shows releasing water from the reservoir in a controlled manner into an upgraded Helpringham South Beck channel to the South Forty Foot Drain, then on to the sea, as the preferred option. This would avoid water being released into Swaton Eau, Helpringham Eau and North Beck. We are continuing to assess options and will consider the potential environmental effects of an emergency drawdown event as part of the Environmental Impact Assessment.

We will incorporate several safety features into the design of our reservoir. These include:

Monitoring and surveillance

As well as ongoing monitoring by skilled operatives and equipment, we are also exploring the potential of new innovative monitoring equipment in the construction of the reservoir.

Bottom outlet valve and pipe

The bottom outlet valve and pipe is designed to allow us to lower the water level within the reservoir quickly in the event of an emergency that threatens the integrity of the embankment.

Spillway

The spillway is a lowered section of embankment with a reinforced outer face. In the very unlikely case that the water level in the reservoir rises beyond the normal operating range, the spillway is designed to overtop, allowing the safe disposal of 'spilled' water.

Test pond

Each year we would test the emergency procedure to ensure our systems and plans remain effective. At these times, water would be released into a test pond and held temporarily rather than being released. When the test is complete, the water would be pumped back into the reservoir. In the event we would ever need to fully use the emergency procedure, the water would be released from the test pond into the water courses mentioned above.

Help shape our proposals

We understand that our proposals will have an effect on landowners, homeowners and communities. We're committed to working with these groups as we develop our plans and want to hear all views on our emerging proposals.

Local people and other stakeholders have an important role in influencing how our proposals are developed further. Your knowledge is valuable to us, and we welcome any feedback you have on the ideas and features we've identified.

How to provide feedback on the emerging design

We would like to get your comments on the opportunities and features included in the emerging design.

In the following pages you can find out more about the overall approach, and the features we could include in different areas.

Our feedback form is organised into questions so you can provide feedback on the different opportunities we could include. These could be about one area of the reservoir or the reservoir as a whole.

Our feedback form includes the following questions:

Do you have any comments on the initial site-specific design vision and principles?

Do you have any overall comments on the emerging design for the main reservoir site?

Do you have any comments on the initial opportunities for potential recreational areas?

Do you have any comments on the initial opportunities for potential environmental areas and wildlife habitats?

Do you have any comments on the initial opportunities for footpaths cycleways and bridleways within the main reservoir site?

Do you have any comments on the initial opportunities for potential access arrangements from the surrounding area to the main reservoir site?

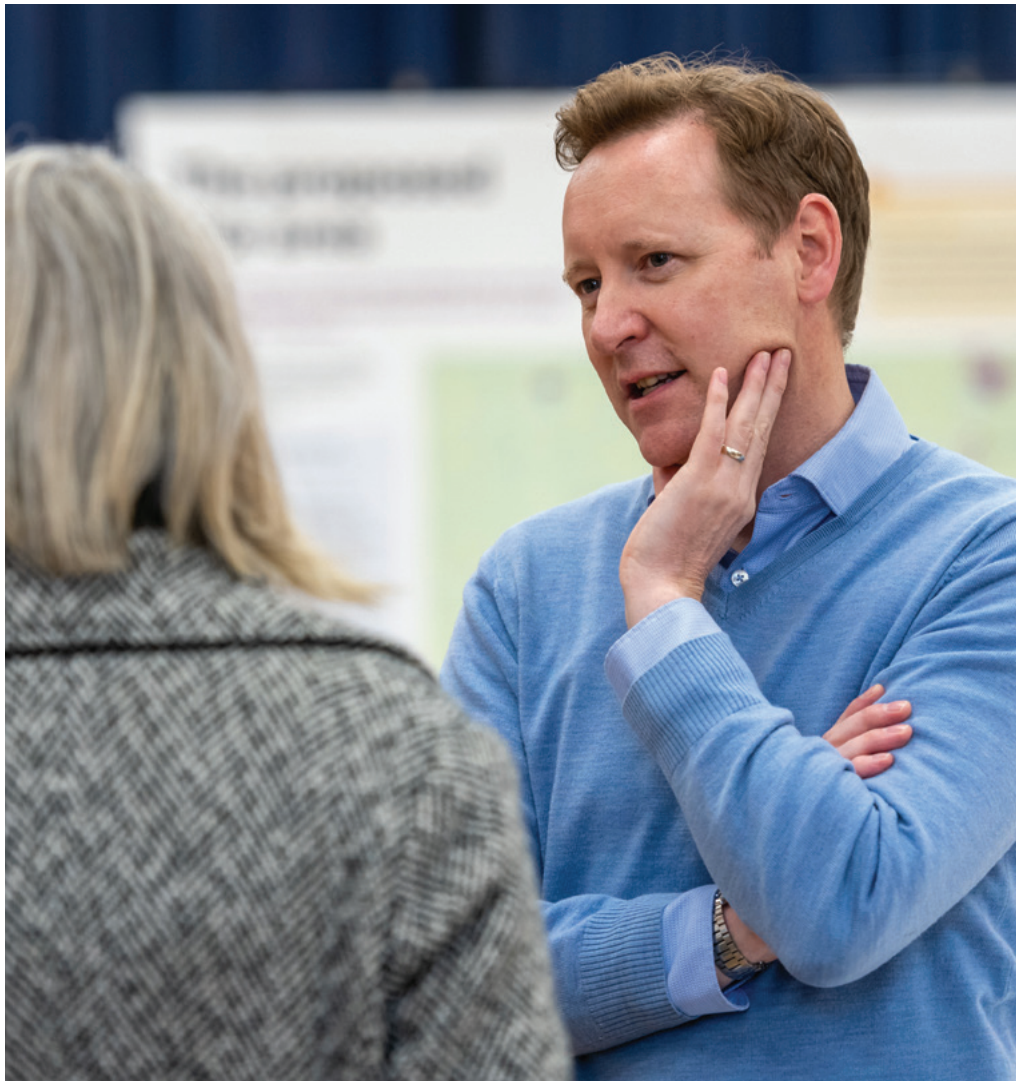
Do you have any comments on the indicative route for the diversion of the road link between Helpringham and Scredington as visualised in the emerging design?

Do you have any comments on our early stage plans to include renewable energy generation at the main reservoir site?

Do you have any additional feedback about the emerging design for the main site that you have not included above?

Do you have any comments on the identified areas for environmental mitigation, construction and wider uses, or is there any information you think we should know about these areas?

The following pages provide more information about the emerging design to help you answer these questions.



How to get involved

This consultation is open from 30 May until 9 August 2024

All feedback you share will be reviewed, recorded, and carefully considered as we develop our proposals.

Submitting your comments

You can submit feedback to us in several different ways:

- Completing a feedback form online: **www.lincsreservoir.co.uk**
- Sending a hard copy feedback form or written feedback to us at: **Freepost Lincolnshire Reservoir**
- Sending an email to: **info@lincsreservoir.co.uk**

Hard copies of our consultation materials and feedback forms will be available at our consultation events or upon request.

There are some aspects that are not open to influence. That's because they cannot be shaped by feedback for technical reasons, such as safety and engineering requirements, or because they have been and continue to be consulted on through the Water Resources Management Plan (WRMP) process.

This includes:

- The project's **need case**
- The **capacity** of the reservoir
- The **site** for the reservoir

Please make sure you submit your feedback to us by 23:59 on Friday 9 August 2024

Our vision for the reservoir – supporting thriving communities and nature

The emerging design has been developed to seek to integrate with the surrounding villages and farmland, and respect the local area's character and heritage. Connections to local communities could provide opportunities for people to access and enjoy water and nature.

People

The Lincolnshire Reservoir will be at the heart of a revitalised countryside.

Areas within and around it will be opened for public use, and leisure opportunities created on the water and in the surrounding landscape. New connections will be provided from nearby villages, so that people can access and enjoy water and nature.

The reservoir will promote a change to more regenerative land management, and diverse opportunities for local people, agriculture and businesses.

Nature

The reservoir will be thoughtfully designed to respect and reveal the local area's rich character and heritage.

It will help the environment to thrive and to increase the presence and diversity of local wildlife.

Water

The reservoir will secure a resilient supply of water for people across Lincolnshire and the surrounding areas for decades to come.

It will mean less water taken from sensitive groundwater sources, replenishing the environment and helping springs to flow.

It will protect water supplies for agriculture, while helping people and nature to reconnect.

Find out more

In the following pages there is more information about our emerging design for the reservoir and the features it could include.

For illustrative purposes only

Design principles overview

Design principles are a set of guidelines for how a project should be designed. We have developed indicative design principles specific to the reservoir in Lincolnshire which have guided how we have developed the emerging design to date. These are summarised below.

Integrated in the local area

Use form and shape to integrate into local landscape character using natural ridges, shallow valleys, planting and other natural features.

Celebrate culture and heritage

Respect the rich cultural landscape and its heritage, reflected in the character of the surrounding villages, churches, winding lanes, and historic settlements.

Connecting communities

Seek opportunities to enhance connectivity between the neighbouring communities such as Scredington, Helpringham, Swaton, Spanby, Horbling and Burton Pedwardine.

Enjoying water and nature

Create the foundations for a nature rich destination that will attract people, with the aim of delivering health, wellbeing, nature, education and economic opportunities.

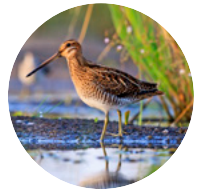
Restoring nature

Create a mix of ecological conditions within and around the reservoir, providing opportunity for nature to thrive on land and in water.

Productive landscapes

Consider how agricultural practices could be brought into the landscape of the reservoir, helping to mitigate the loss of agricultural land, in accordance with national planning policy.

Positive environmental outcomes



Consider nature-based solutions to contribute to managing flooding, soil erosion and loss of habitat and biodiversity.

Access to water

Create areas that provide access to water for recreation and support wetland habitats.

Net zero operation

Design and construct the reservoir to reduce greenhouse gas emissions and support Anglian Water's objective to achieve net zero operational carbon emissions by 2030.

Integrate operational components

Seek opportunities for the operational components of the reservoir to promote recreation and create intriguing places.

Find out more

Find out more about this part of the design in our **main site design report** which is available online at **www.lincsreservoir.co.uk/documents**

We would like to hear your views on our vision and indicative design principles. Please visit **www.lincsreservoir.co.uk** and complete our online feedback form or see **page 15** for other ways to provide your comments.

Overall approach

The shape and layout of the emerging design have been influenced by the local landscape shape and character.

It uses existing natural ridges with gently sloping embankments designed to integrate with the surrounding villages and farmland.

The emerging design uses a combination of landforms and lagoons to create distinct areas, each with different uses to create a variety of experiences.

Our ideas include places for recreation both on the water and land, with other areas focused on nature to create calm spaces. A visitor centre and recreation hubs are located in the south, with areas centred on nature and tranquillity to the north. The peninsula creates a link between these two areas.

The emerging design features a lagoon in the south of the reservoir where water would always be kept at around the same level. This could create an area where consistent access to water is easier, potentially supporting activities like open water swimming and kayaking, and others, some of which would be future opportunities delivered by third parties.

We have considered the potential for connections to the surrounding communities and around the reservoir itself with opportunities for walking, cycling and horse riding connecting the different areas of the reservoir. These connections to the wider surrounding area could also support a range of activities that could encourage social, economic and environmental benefits.

We've included a variety of habitat ideas to encourage wildlife, with different wetland types both inside the reservoir and surrounding it. This includes ideas to enhance the existing watercourses to support nature, create opportunities for recreation, and contribute to better flood management. The details and extent of these would only be confirmed when we have carried out our environmental assessments.

The emerging design also includes areas where productive land could be retained.

Embankment design

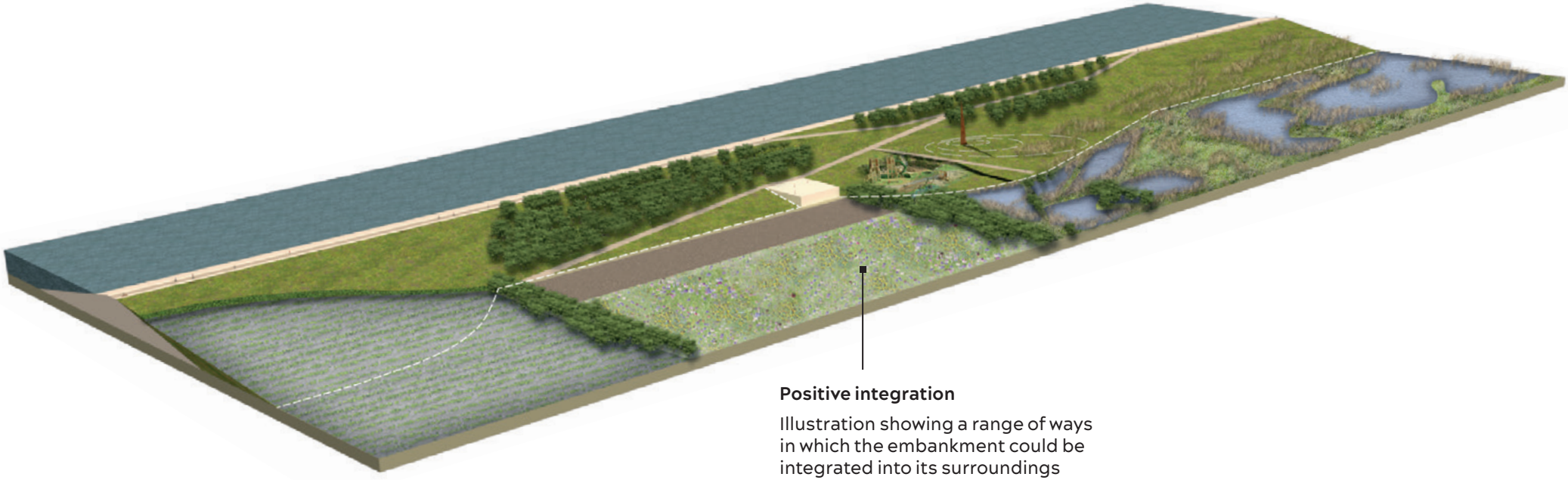
We are seeking to avoid a reservoir with basic, uniform embankment slopes that provide no shelter or integration with the surrounding landscape.

At this stage, we have considered options for embankments with shallower gradients and with planting and other features that could improve accessibility and appearance.

These opportunities are used in the emerging design shown in the following pages. At this stage, these are our initial ideas to help generate feedback – the proposals will continue to be developed based on consultation feedback, environmental assessment, engineering work, and the findings of ground surveys.

Embankment height

We estimate that the embankment crest height will be up to 15 metres above existing ground level. However, these are not fixed at this stage and require further investigation and assessment.



Positive integration

Illustration showing a range of ways in which the embankment could be integrated into its surroundings

Find out more

For more information, please read our **main site design report** online at **www.lincsreservoir.co.uk/documents**

Our emerging design

The emerging design for the reservoir provides opportunities for a range of experiences for visitors.

This could be achieved in a variety of ways with sections of the reservoir each providing different character and activities.

At this stage, we have organised the emerging design into six areas and explain our ideas for each of these on the opposite page.

In the following pages you can find out more about our ideas for the overall approach, and the features we could include across these areas.

Indicative Locations for Primary Infrastructure (Operational Reservoir)

- Upstream transfer (open channel)
- Water discharge point into reservoir
- Outlet tower
- Outlet valve test pond
- Spillway
- Water treatment works
- Preferred water treatment works site selection area
- Pumping station
- Proposed toe of outer embankment

Renewable Energy

- Indicative location and extent of floating solar
- Indicative location and extent of land-based solar and battery storage

Other renewable energy technologies are being considered, including wind turbines. Further work will be undertaken to identify preferred technologies, scale and locations.

Indicative Landscape Elements

- Woodland
- Wetland
- Grassland
- Hedgerow

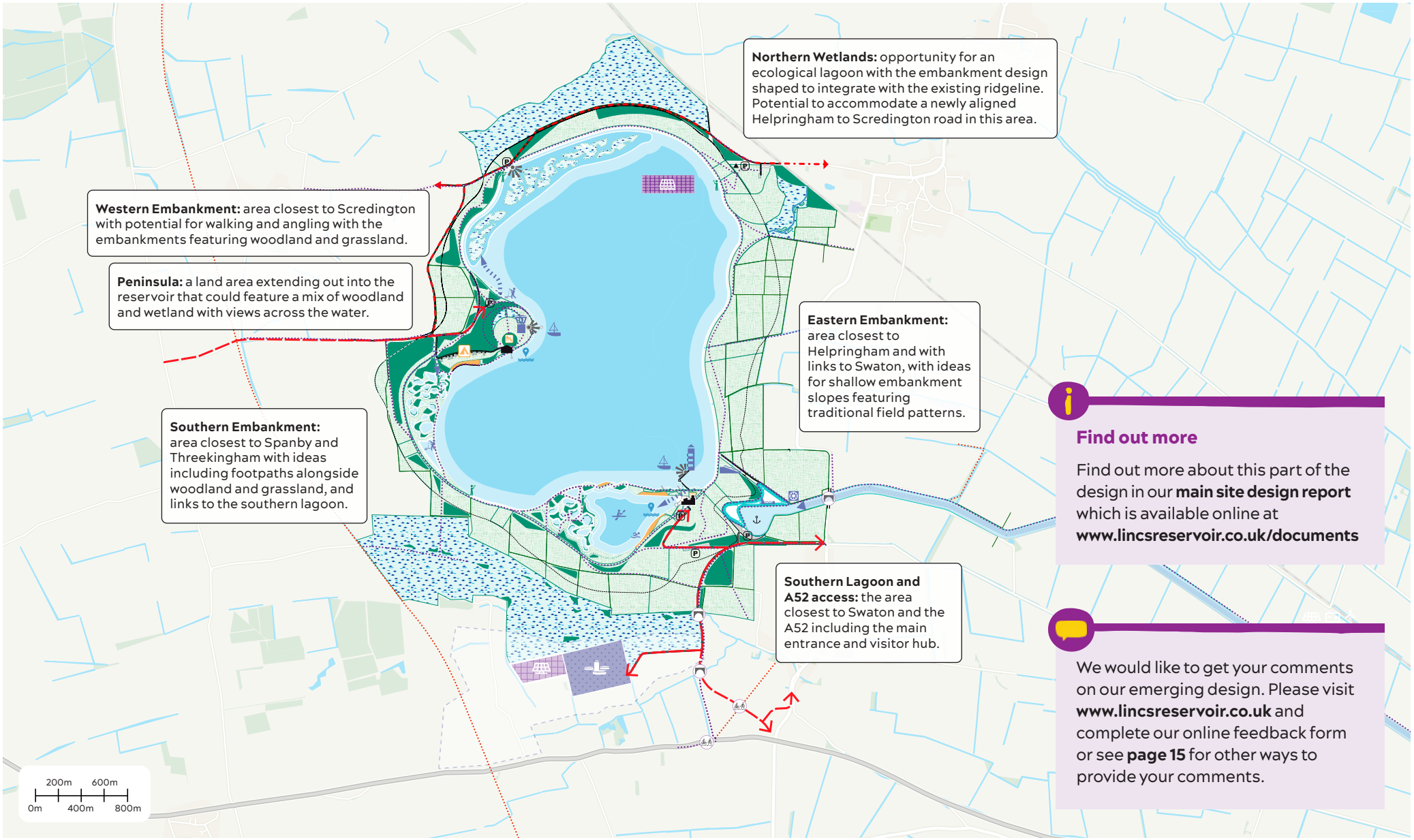
Indicative Access Elements

- Potential shared path
- Existing Public Right of Way
- Potential vehicular access route
- Potential route for road diversion
- Potential route for offsite active travel connectivity (by others)
- Proposed road crossing for walking, cycling and horse riding
- Proposed all user bridge
- Proposed parking

The location and alignment of routes shown on the masterplan are also indicative at this stage and further work will be undertaken to define and refine these.

Indicative Opportunities for Recreation

- Visitor centre
- Secondary recreational facility
- Tertiary recreational facility
- Viewing tower
- Potential location for marina and associated facilities
- Beach
- Camping
- Sailing
- Swimming
- Play
- Viewpoint
- Fishing
- Bird Watching
- Paddle Sport
- Point of access to the water



Find out more

Find out more about this part of the design in our **main site design report** which is available online at **www.lincsreservoir.co.uk/documents**

We would like to get your comments on our emerging design. Please visit **www.lincsreservoir.co.uk** and complete our online feedback form or see **page 15** for other ways to provide your comments.

Southern Lagoon and A52 access

This part of the reservoir could have the potential to be both the main visitor hub and main point of access to the reservoir for visitors. It is well positioned close to the A52 with the idea this could serve as a key strategic route for visitors to the reservoir.

With appropriate landscape treatment, the land between the visitor hub and Swaton could be designed to maintain a sense of separation between the reservoir and the village, while still providing opportunities for walking, cycling and horse-riding routes. Routes to link Horbling could also be considered.

Ideas for the embankment include planting and potential reinstatement of historic field patterns, to integrate with local landscape character, including views to the church spire.

There could be the opportunity for a link from the main reservoir access road connecting back to the B1394 north of Swaton. This could help to take through traffic, heading north or south on the B1394, away from Swaton.

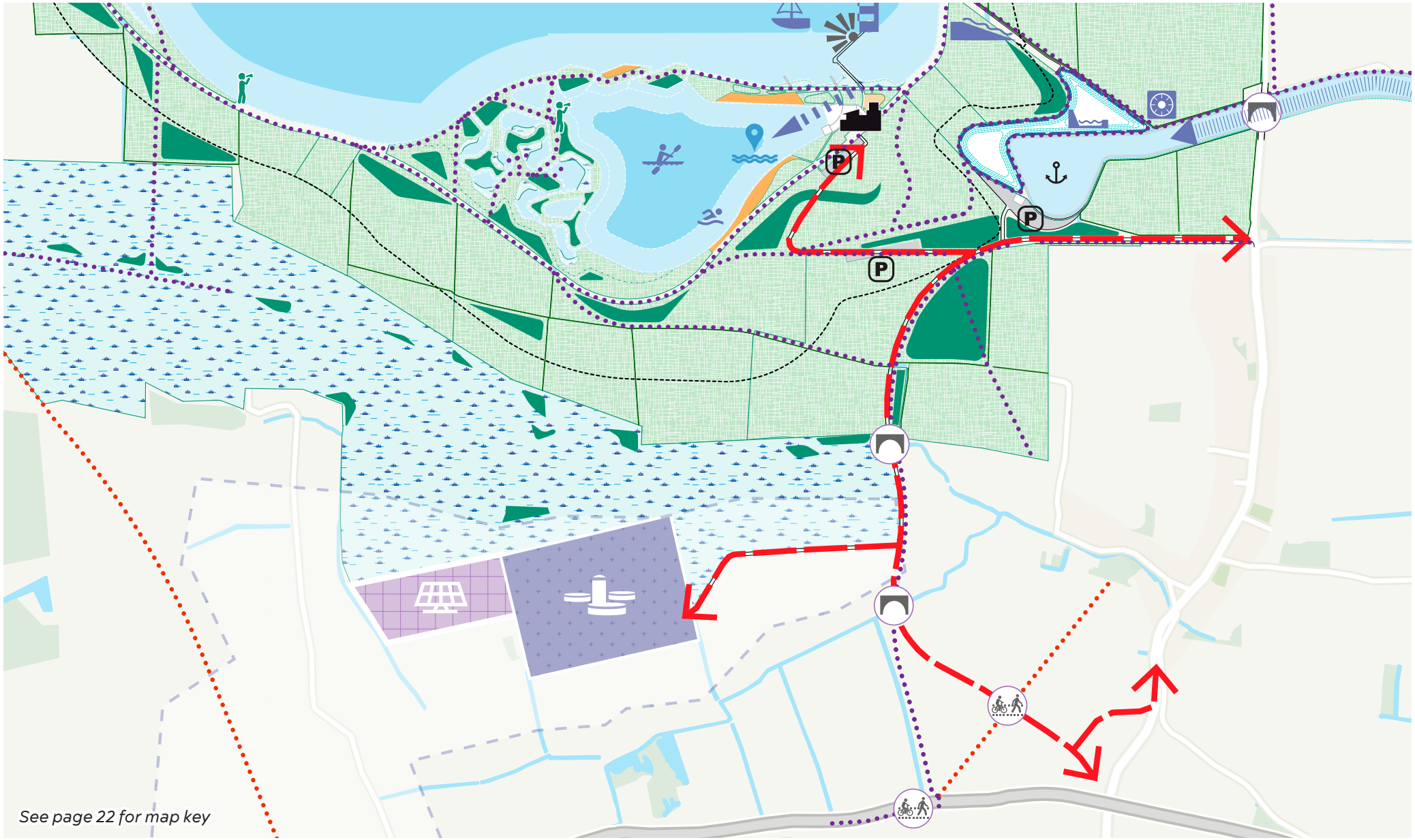
Potential wetland habitat areas located to the west of this area might incorporate features such as boardwalks to give people the opportunity to walk close to water and nature.

The outlet tower (as part of the water supply to the Water Treatment Works) is also proposed for this section of the reservoir. This area is also where key infrastructure could be located including the water treatment works, spillway and raw water inlet channel.

Find out more

Find out more about this part of the design in our **main site design report** which is available online at **www.lincsreservoir.co.uk/documents**

We would like to get your comments on our initial ideas for this area of the reservoir. Please visit **www.lincsreservoir.co.uk** and complete our online feedback form or see **page 15** for other ways to provide your comments.



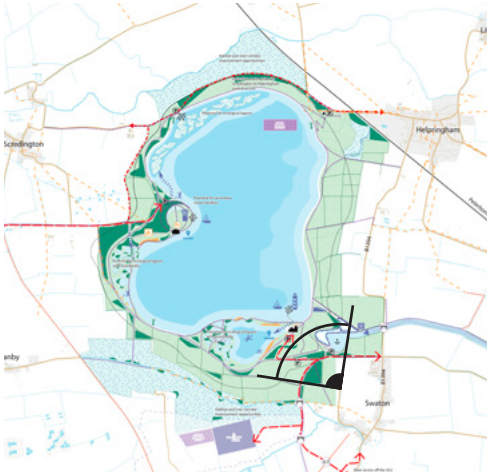
See page 22 for map key

Southern Lagoon and A52 access eye-level viewpoint

Here's a visual impression of what this area could look like if you were viewing it from the point shown below.

The existing view towards the proposed site from Pepper's Lane, to the west of Swaton.

An artist impression of the view towards the southern reservoir embankment from Pepper's Lane, to the west of Swaton. **Distance to Crest – 770 metres**



Viewpoint location plan

Find out more

Find out more about this part of the design in our **main site design report** which is available online at **www.lincsreservoir.co.uk/documents**

We would like to get your comments on our initial ideas for this area of the reservoir. Please visit **www.lincsreservoir.co.uk** and complete our online feedback form or see **page 15** for other ways to provide your comments.

Peninsula

The Peninsula uses the existing higher land to create a feature out into the reservoir.

In the emerging design this area mixes woodland, wetland and the existing landscape shape to create an area to explore, with paths hidden from the surrounding countryside. This could create spaces for quiet contemplation.

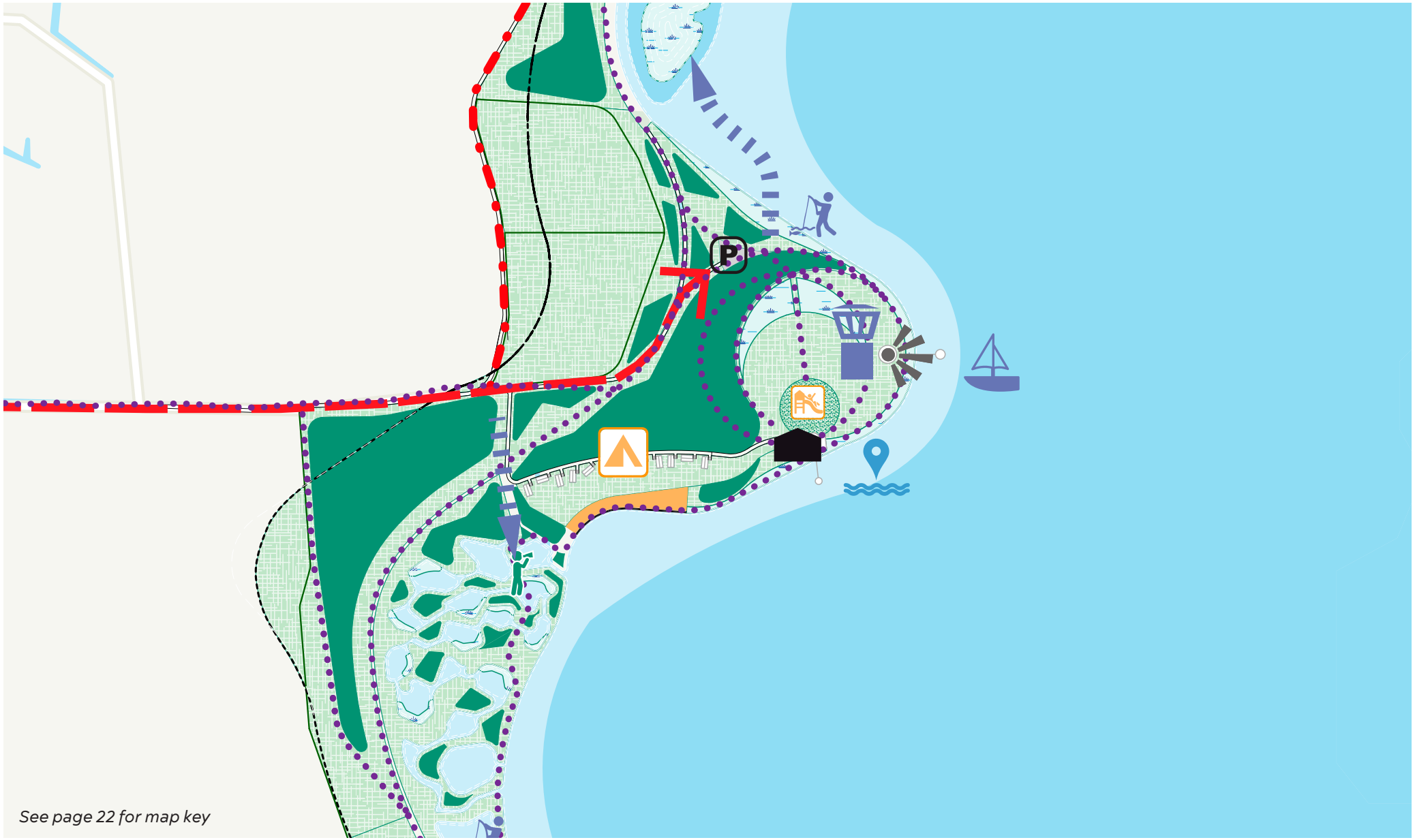
This could be an area that offers a different experience to the recreation and activity hub proposed in the south. The prominent position of the central peninsula could draw people away to quieter spaces with views across the reservoir and beyond.

A lagoon immediately south of the Peninsula could be designed as a place where people and nature meet. This could offer opportunities for visitors to walk through a wetland habitat in a rural and quiet setting.

Find out more

Find out more about this part of the design in our **main site design report** which is available online at **www.lincsreservoir.co.uk/documents**

We would like to get your comments on our initial ideas for this area of the reservoir. Please visit **www.lincsreservoir.co.uk** and complete our online feedback form or see **page 15** for other ways to provide your comments.



See page 22 for map key

Eastern Embankment

Our idea is for the eastern embankment to have shallow slopes set back from Helpringham and Swaton, providing a gradual transition between the reservoir and the villages.

Planting of hedgerows on the embankments and reinstating historic field patterns could reduce the scale of the embankments and help integrate them into the landscape.

This could help create an appropriate setting for historical features in the area including Thorpe Latimer and retained ridge and furrow fields.

There are opportunities to create a green buffer between Helpringham and the reservoir at the north-east corner, where the embankment extent is restricted by the Lincoln to Peterborough railway line. This could be achieved through grassland, woodland planting and potential river corridor improvements along the existing watercourse.

The emerging design includes the potential for a local visitor facility in close proximity to Helpringham. This could be smaller in scale to the southern recreation hub, with low key features such as limited parking and play features to serve local communities, rather than visitors to the reservoir.

There could also be the potential to connect the proposed route along the embankment crest to local settlements, the B1394, and the existing public footpath network.

Find out more

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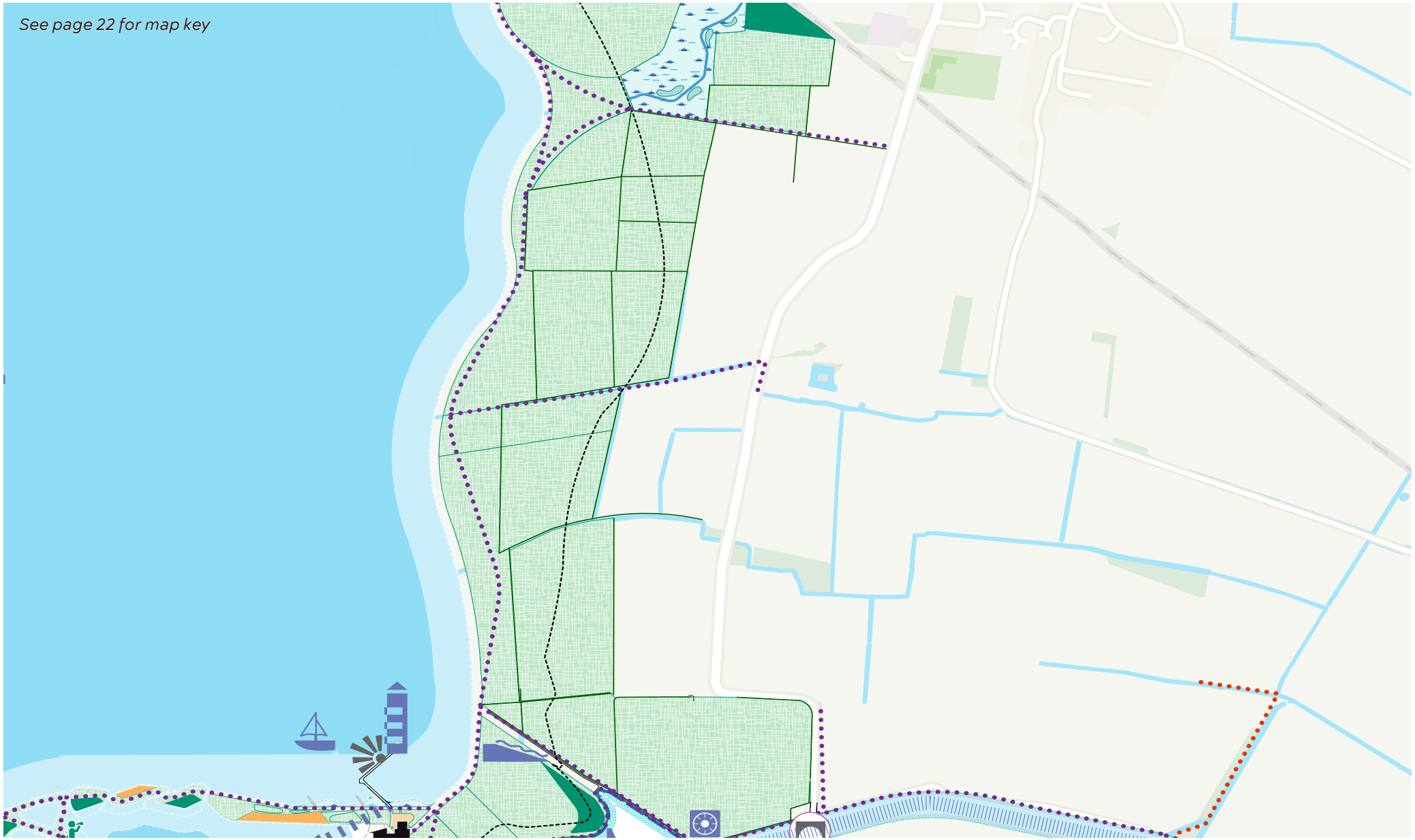
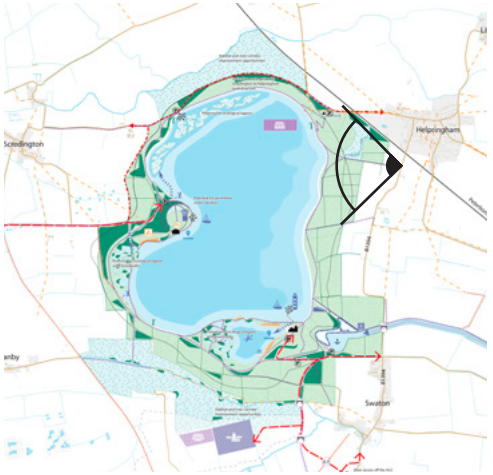


Eastern Embankment eye-level viewpoint

Here's a visual impression of what this area could look like if you were viewing it from the point shown below.

Existing view towards the eastern part of the proposed site, from Swaton Lane, between Helpringham and Thorpe Latimer.

An artist impression of the view towards the eastern reservoir embankment from Swaton Lane, between Helpringham and Thorpe Latimer. **Distance to Crest – 790 metres**



Viewpoint location plan

Find out more

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Northern Wetlands

The embankment could integrate with the existing ridgeline in this area with its shape reflecting the natural slope of the land towards the flood plain. Planting on parts of the embankment slope and within the river corridor could integrate the reservoir into the landscape.

The emerging design includes a lagoon within the reservoir using the existing elevated land to create permanent wetland areas with varying depths, even during low reservoir water levels. Islands with no public access could be included in the lagoon and potentially provide refuge for wildlife. Changes to Helpringham North Beck could also potentially provide wetland habitats and incorporate river corridor improvements.

The Helpringham to Scredington road could be accommodated within this area. The emerging design shows one of the early indicative options, which could take the realigned road along the base of the embankment with a short section rising to the embankment crest to provide a view of the reservoir. However, further work is required on the feasibility of road diversion options, including thorough engagement with the local highway authority.

We are considering the feasibility of including renewable energy generation as part of the main reservoir site. The feasibility, mix and capacity of this is being explored, but we have indicatively suggested at this stage that this area could host floating solar panels.

Find out more

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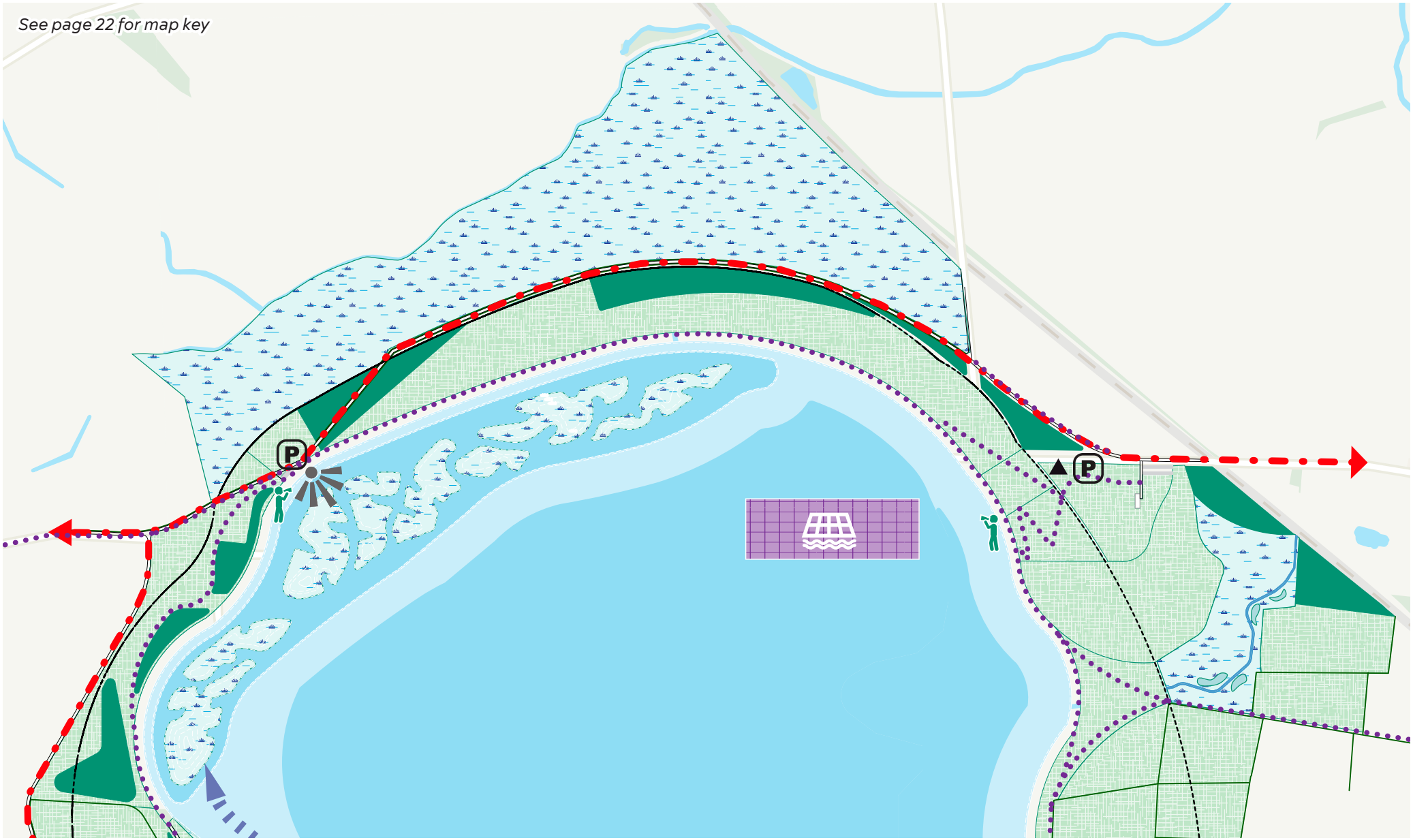

Western Embankment

The embankments in this area could be shaped to reflect variations in the existing land with the inner face of the embankment potentially providing access to the water's edge for activities such as angling.

Blocks of woodland planting on the slopes and extending beyond the base of the embankment, could tie-in to the existing wooded nature of the area, south-east of Scredington. This could help break up views towards the embankment from Scredington and for people using of the local footpaths.

Woodland planting and grassland could provide opportunities for sheltered routes around the reservoir, with the potential to create links to local communities and existing footpaths.

There is the potential to retain Gorse Lane as an access road, diverted to the west from its existing path. However, this is subject to further engagement with the local highways authority, among others.

Find out more

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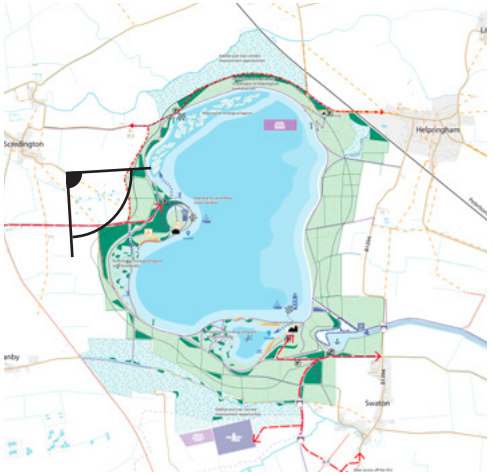
See page 22 for map key

Western embankment eye-level viewpoint

Here's a visual impression of what this area could look like if you were viewing it from the point shown below.

Existing view towards the western part of the proposed site, from Church Lane, south east of Scredington.

An artist impression of the view towards the western reservoir embankment from Church Lane, south east of Scredington. **Distance to Crest – 810 metres**



Viewpoint location plan

Find out more

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Southern Embankment

This area could connect the main visitor hub at the Southern Lagoon with the secondary visitor facilities at the Peninsula.

A series of recreational loops for visitors could be created, including a footpath link along the crest of the embankment and other routes on the outer face of the embankment, and along the river corridor to the south.

There could be an opportunity to reinstate existing and historic field patterns and hedgerows, alongside woodland and grassland planting. This could help break up views towards the embankment crest, including from south of the A52.

We are considering the feasibility of including renewable energy generation as part of the main reservoir site. The feasibility, mix and capacity of this is being explored, but we have indicatively suggested at this stage this area could host solar panels.

This area is also the provisional area we've identified for where the water treatment works could be located, with solar panels located next to it.

Find out more

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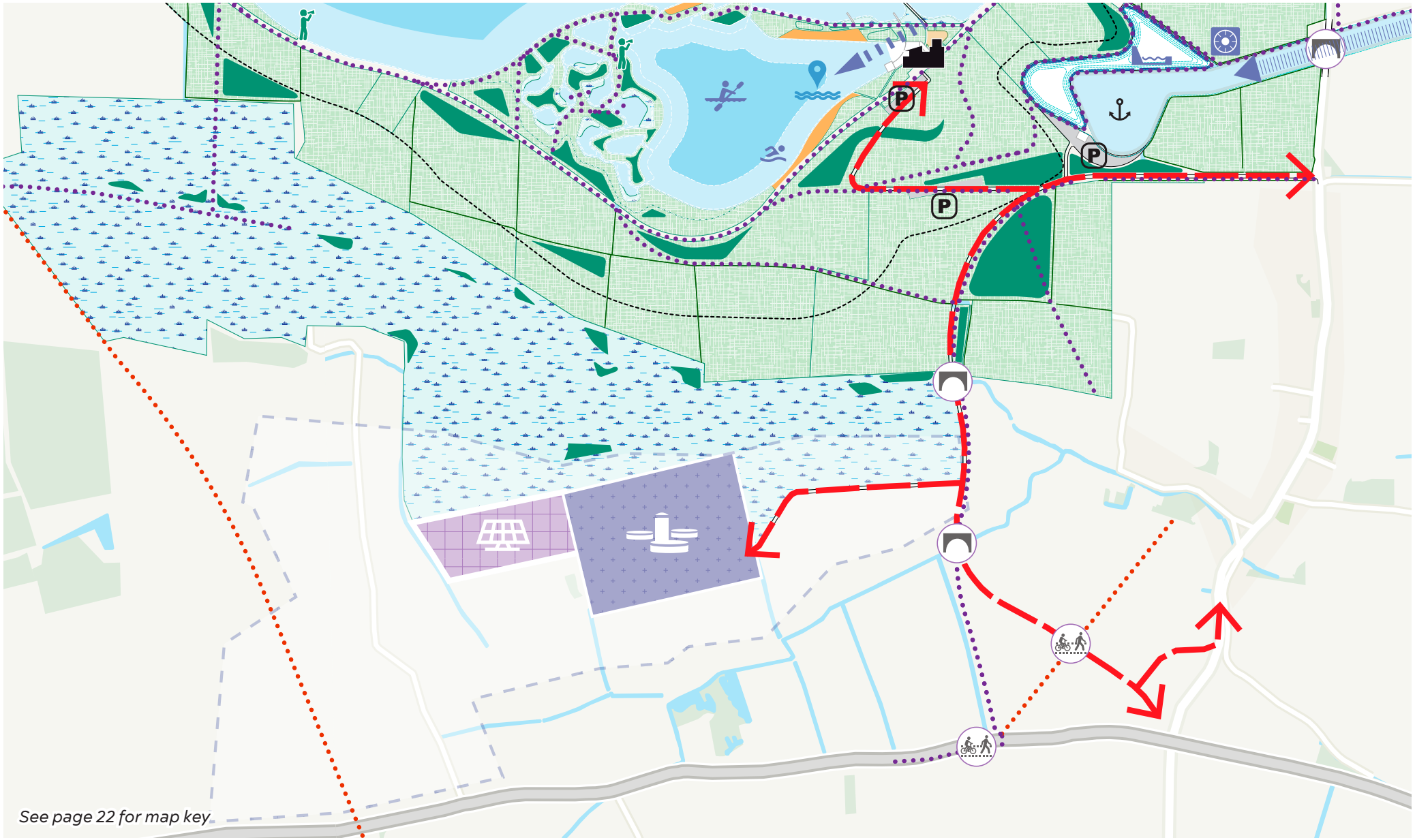

See page 22 for map key

Additional land areas

Our work to date has focused on the emerging design for the reservoir.

We have also done some very early thinking on the areas of land we could need for environmental mitigation and enhancement, construction, or for other works related to the reservoir.

This is based on the early consideration of known constraints around the reservoir and the size of the reservoir and its embankments.

However, this is subject to further assessment and consultation and whether the land is needed on a permanent or temporary basis is still to be confirmed.

We would like to get your feedback on these areas of land. Do you have any comments on the identified areas or is there any information you can provide about these areas to help us develop our work further?

More developed thinking on construction and environmental mitigation plans will follow at a later consultation. By this time we will have completed preliminary work on our environmental impact assessment. Further surveys will also have been completed to continue our understanding of ground conditions and other matters.

Your feedback

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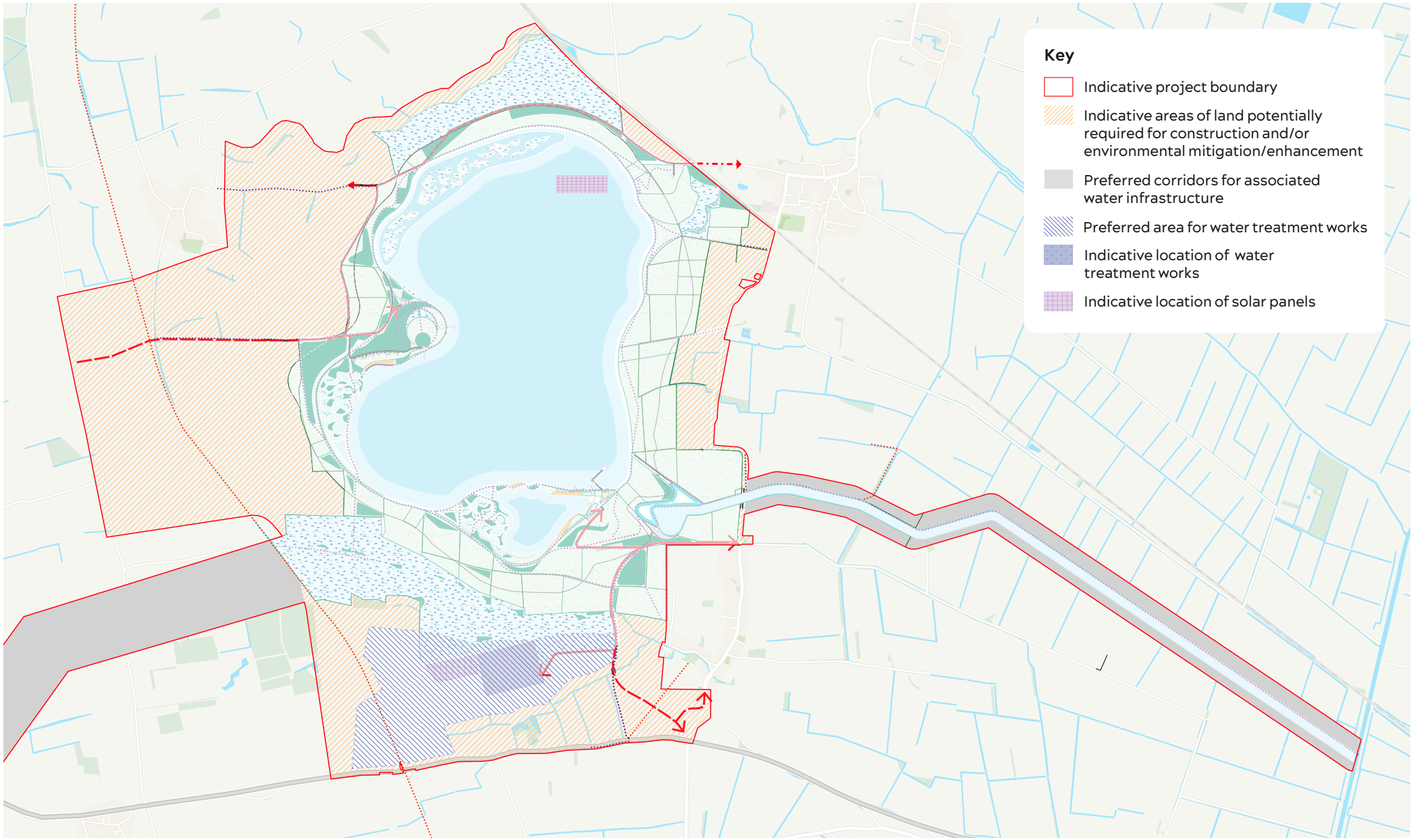
Key
Indicative project boundary
Indicative areas of land potentially required for construction and/or environmental mitigation/enhancement
Preferred corridors for associated water infrastructure
Preferred area for water treatment works
Indicative location of water treatment works
Indicative location of solar panels

love every drop
anglianwater

Get in touch

You can contact the project team by:

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Write **Freepost Lincolnshire Reservoir**

Website **www.lincsreservoir.co.uk**