

Cambridge Waste Water Treatment Plant Relocation Project



Phase Two Community Consultation Leaflet
June 2021

www.cwwtpr.com

Introduction

We have launched our phase two consultation on the Cambridge Waste Water Treatment Plant Relocation project. We want to hear your views on our emerging proposals for the new site, including our mitigation measures and any other opportunities for environmental enhancement you would like us to explore further. You can access our consultation materials and provide your views at any point between 23 June and 18 August. All feedback is valued.

This consultation leaflet presents and summarises our proposals. Further information is provided through topic specific factsheets, which include more detail on key areas of the project, including on the tunnel / pipeline corridors and a connection to Waterbeach. Copies of this leaflet and accompanying factsheets are available via our website (www.cwwtpr.com) and on request via our contact details listed on the back of this leaflet. More information is also presented through our website via our virtual exhibition and digital engagement platform.

Please don't hesitate to get in touch with our consultation team if you have any questions on our phase two consultation or require information to be provided in alternative formats. You can reach us using the contact details on the back page of this leaflet, including by phone or post.

About the relocation project

Anglian Water is planning to build a modern, low carbon water recycling centre for Greater Cambridge. The new facility will provide vital services for the community and environment, recycling water and nutrients, producing green energy, helping Cambridge to grow sustainably.

Anglian Water's vision goes beyond just building a new plant. It isn't simply about moving an old facility to a new location. We will build a facility of the future where waste water becomes a valuable resource, alongside establishing new habitats for wildlife and creating improved access to the Cambridgeshire countryside. We want to create a place where water, people and landscape come together.

In January 2021, following extensive public consultation and a series of rigorous environmental, community, planning, operational, and economic assessments, we concluded the most appropriate location for the new site is the area north of the A14 between Fen Ditton and Horningsea. This site provides the greatest opportunity to deliver not only a modern treatment facility for Greater Cambridge, but also on many of the issues residents told us are important to them during our phase one consultation.

Contents

About the relocation project	page 3
The journey so far	page 5
Our phase two consultation	page 6
Our proposals	page 8
People	page 12
Places	page 16
Value	page 28
Climate	page 30
The construction Phase	page 32
Next steps	page 34
Get in touch	page 35

The project at a glance



Enabling sustainable economic and housing growth



Building for the future with a state-of-the-art facility



Creating new and improved access to the Cambridgeshire countryside



Designing an operationally net zero carbon and energy neutral facility



Protecting against climate change



Delivering new and improved habitats for wildlife



A Discovery Centre to help people understand and explore what we do



Supporting local projects in your community

Closing the facility at the current site on Cowley Road will:



Allow the existing site to be redeveloped, delivering around 5,600 of the 8,000 much-needed new homes in North East Cambridge, including around 40% affordable housing (rented and shared ownership)



Provide a mix of homes, workplaces, shops and community spaces with good connectivity, that are fully integrated with surrounding communities



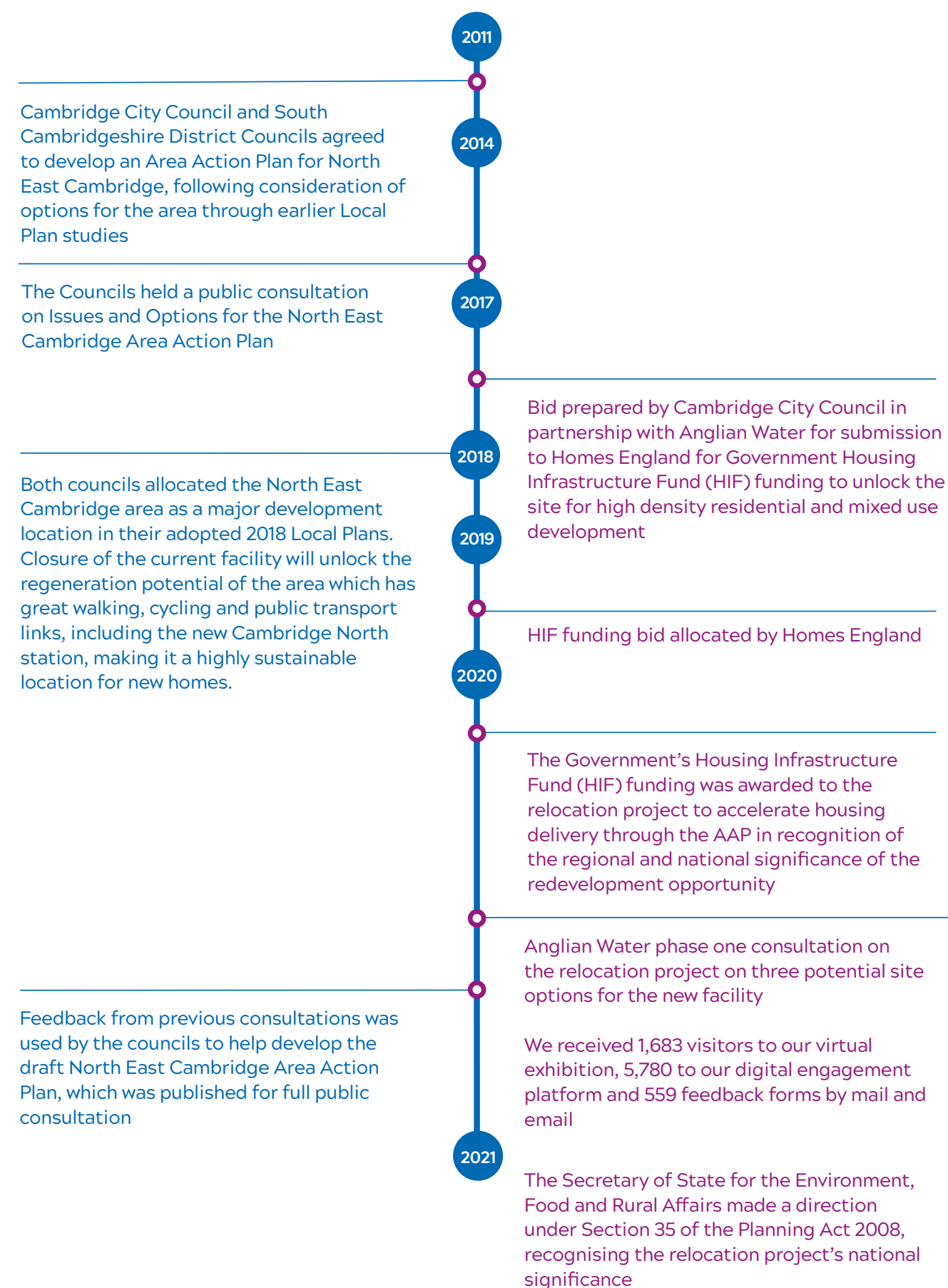
Enable improvements to walking, cycling and public transport connectivity, helping to address climate change through reducing car use



Create new parks and open spaces that will form an accessible green space network with a wide range of plants and wildlife, linked with parks in the wider area



The journey so far



Our phase two consultation

Our phase two consultation is open between 23 June and 18 August. You can access our consultation materials and provide your views at any point during this time.

What we are consulting on

As part of this consultation, we want to hear your views on our emerging proposals for the site, including our mitigation measures and any other opportunities for environmental enhancement you would like us to explore further. All feedback is valued.

As part of this consultation we are asking for your views on:

- Our emerging proposals for the new facility and surrounding site
- The landscape proposals designed to screen the facility including an earthwork bank, further screening and on the finish of the more visible features including the anaerobic digesters and the gateway building
- Our proposed options for providing a new permanent access point for vehicles during the long-term operation of the new facility
- The mitigation measures and opportunities for environmental enhancement you would like to see around the site, including landscaping, habitats for wildlife, and recreational connectivity for the local community to access the site area and enjoy the surrounding countryside
- How our proposals can align with local projects and aspirations such as the Wicken Fen Vision, Nature Networks and Greenways, or if there are any other projects you think are important for us to consider
- Information on the proposed approach to the construction phase

How to find out more

We have recently published our Statement of Community Consultation (SoCC), which explains how we will continue to consult the local community and how you can help shape our proposals as they develop. Our SoCC and the full suite of phase two consultation materials are available from the document library on our project website (www.cwwtpr.com). The document library also includes all of our phase one consultation materials, as well as reports on how consultation feedback informed our site selection and our early design proposals.

This consultation leaflet presents and summarises our proposals. Further information is provided through our virtual exhibition and digital engagement platform, which can be accessed via our project website. Topic specific factsheets are also available, providing more detail on key areas of our proposals. The factsheets are available online as well as in hard copy from the Community Access Points listed on the back of this leaflet.

We will be holding a number of community webinars during our phase two consultation. Dates and times of these are provided below. If you would like to join one of our community webinars, you can register your interest by getting in touch with the project team using the contact details on the back page of this leaflet.

How to have your say

You can access our consultation material and provide your views in the following ways:



Project website: our dedicated project website www.cwwtpr.com is available for you to find out more information, including our full suite of phase two consultation documents.



By post: feedback forms have been posted together with the consultation leaflet to all homes and businesses within our core consultation zone. These can be filled in and posted back to us via FREEPOST, feedback forms will also be provided on request via post.



Webinars: join our community webinars by video call or by phone, to hear more from the project team and ask your questions. Get in touch to register.



Digital engagement platform: you can view our plans, post comments on our interactive map and see feedback from other members of the community on our digital engagement platform, accessed through our project website.



Virtual exhibition: visit our virtual exhibition to view information about the project. You can access this through our project website. Our virtual exhibition will remain open throughout the consultation period.



Community Access Points: hard copies of consultation materials are available during the consultation period from the locations listed on the back of this leaflet.



Communications lines: our free-to-use communications lines are open throughout the consultation period. You can speak to a member of our consultation team to ask questions, request information (including in alternative accessible formats), and provide feedback by calling **0808 196 1661** or emailing info@cwwtpr.com.

Phase two webinar dates



Wednesday
07 July
(2pm-3pm)



Thursday
08 July
(7pm-8pm)



Saturday
10 July
(10am-11am)

Register by calling or emailing us using the details above

Our proposals

Our vision

Anglian Water’s vision for the project goes beyond just building a new plant. It isn’t simply about moving an old facility to a new location. We will build a facility of the future: where waste water becomes a valuable resource, recycling it and recovering nutrients to produce biofertilizer to help enrich local farmland; where we will generate renewable energy to power the facility and heat homes; all before returning cleaned water to the River Cam improving its flow and overall volume.

We will establish new habitats for wildlife and create improved access to the Cambridgeshire countryside, as well as connecting to existing footpaths and access routes. We want to create a place where water, people and landscape come together.

Underpinning our vision are the National Infrastructure Commission’s design principles. You can learn more about how we have applied these and how we are embracing circular economy principles across people, place, climate and value in this consultation leaflet, our factsheets and virtual exhibition, available through our website www.cwwtpr.com.

We are continuing to receive advice and guidance on design good practice from the Design Council, an independent charity and the Government’s strategic advisor on design, who will continue to help us develop our proposals. We will also engage with the local Cambridgeshire Quality Panel as part of our phase two consultation to receive their feedback on our design.



Computer-generated image showing indicative ground level view of the proposed facility with mature planting on top of earthwork bank



People

This is a project for the whole community of Greater Cambridge. By taking on board a range of views the new facility is being designed to reflect social needs, managing resources carefully and sharing benefits widely. We will deliver improved green connectivity routes for pedestrians, cyclists and equestrians so that people can better access and enjoy nature and green spaces, responding to the feedback we have received so far. By using modern technologies and processes our design will ensure that nuisance odour does not adversely affect people’s homes or enjoyment of the surrounding area. Our Discovery Centre will also enable people to understand and interact with water recycling processes, showing what we do while offering unique educational opportunities. [Read more on pages 12-15.](#)



Places

We present a design that supports and, over time, enhances the natural environment. It will sit sensitively in and seeks to make a positive contribution to the local landscape within and beyond its boundary. The design takes its inspiration from the local landscape character – both past and present – creating a place with a strong sense of identity. The project’s design supports and enriches local ecology, contributing to the restoration of Greater Cambridge’s wildlife. We propose to include new trees, hedgerows and grassland habitats within our plans, creating both a visually rich new landscape and making space for nature with at least a 10% increase in biodiversity. Opportunities for rewilding, both within the boundaries of the project and beyond are also being explored. [Read more on pages 16-27.](#)



Value

We are also exploring opportunities to maximise value by enabling wider social and environmental benefits beyond the boundaries of the project, whilst delivering best value for public funding. The new footpaths and bridleways will give the community improved access to the countryside. As the site sits at the southern end of the National Trust’s Wicken Fen Vision area, our proposals will be carefully designed to tie-in with the ambitions of this and other local projects including Cambridge Nature Network and Greater Cambridge Greenways. [Read more on pages 28-29.](#)



Climate

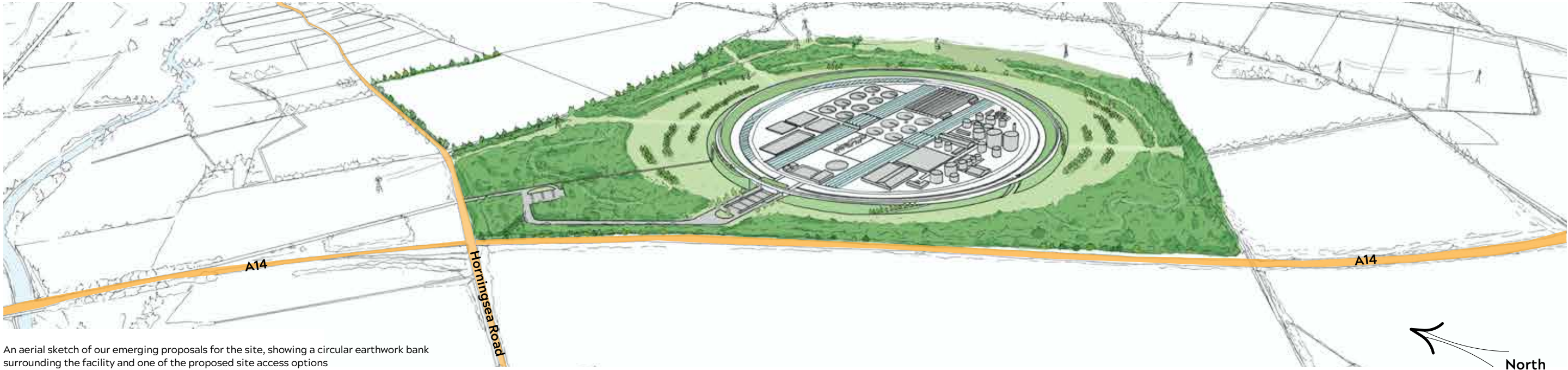
We will build a modern, low carbon, water recycling centre for Greater Cambridge. The new facility will provide vital services for the community and environment, recycling water and nutrients, producing green energy, helping Cambridge to grow sustainably. It will help to mitigate wider climate impacts by improving capacity to treat storm flows before returning cleaned water to the River Cam improving its flow and overall volume. [Read more on pages 30-31.](#)

Our proposals

Our design evolution

Our emerging proposals have been developed with the input and feedback we’ve received from stakeholders and the local community. They are driven by our vision to create a water recycling centre of the future. The visual illustrations shown here are designed to stimulate dialogue and feedback on our ideas.

As part of this consultation, we want to hear your views on our emerging proposals, potential mitigation measures to minimise impacts on local communities, and any other opportunities for environmental enhancement you would like us to explore. See our Feedback Form or visit our digital consultation platform via our website www.cwwtpr.com.



An aerial sketch of our emerging proposals for the site, showing a circular earthwork bank surrounding the facility and one of the proposed site access options

Our proposal takes its inspiration from the local landscape character, both past and present, and is guided by the following core principles:

-  to create a state-of-the-art, low carbon water recycling centre of the future;
-  to create a strong identity for the site while screening the facility and reducing visual impacts on the surrounding community and landscape;
-  to re-use excavated material on site which can be used to screen the facility and also reduce the carbon and traffic impact from construction;
-  to increase biodiversity and create new wildlife habitats;
-  to improve access to the countryside with new paths and accessible open spaces; and
-  to connect the site into the wider landscape and establish new wildlife corridors.

Our proposals show a 22-hectare facility enveloped within a high circular earthwork bank. This has been inspired by local historic structures, such as Fleam Dyke and Devil's Dyke and circular Iron Age hillforts such as the Wandlebury Ring and Belsar's Hill. As it matures, alongside the planting, it will soften and the slopes will provide new grassland habitat for wildlife. It will effectively screen all but the tallest elements of the facility from all directions. Further screening will come through additional offsite landscaping and tree planting, creating both new habitats and reducing impacts on viewpoints such as from the villages of Horningsea, Fen Ditton and Stow cum Quy.



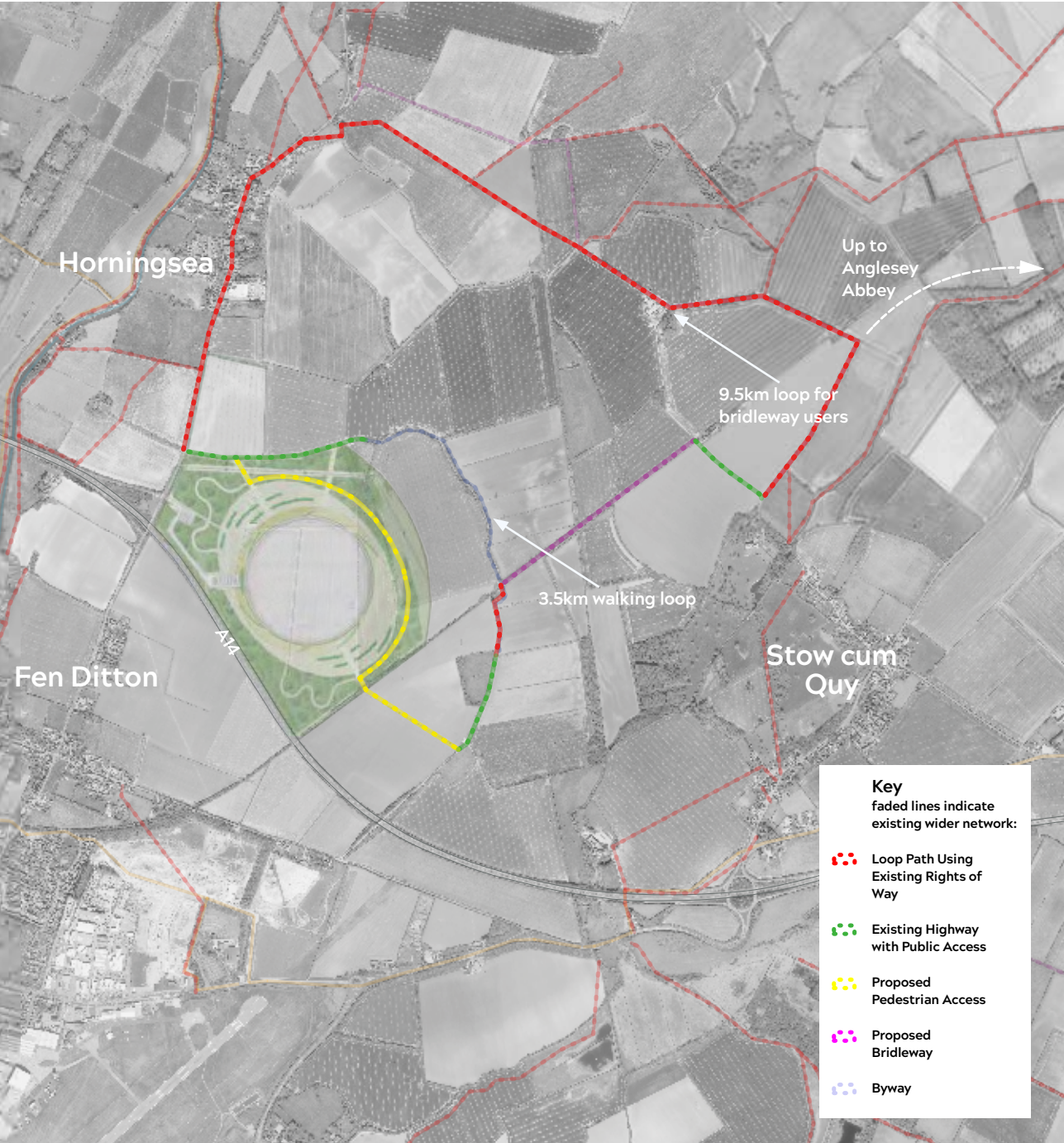
Fleam Dyke

People



Improving access to green spaces

We want to design the setting and appearance of the new facility in collaboration with the local community. During our phase one consultation you told us that enjoying open green spaces is vital for health and wellbeing. Now more than ever, access and the freedom to be able to explore high-quality green spaces is important. We plan to create new footpaths and bridleways to open up recreational access in the area, including to Quy Fen and Anglesey Abbey. Our proposals would form part of a new circular walking route from the facility of 3.5km and longer 9.5km loop for bridleway users, as shown in the image below.



Aerial plan showing new and existing paths

What other opportunities for improved recreation for the local community to access the site area and surrounding countryside would you like us to consider?

See Question 5 in our Feedback Form or visit our digital engagement platform via our website www.cwwtpr.com.

Discovery Centre

We want to create a place where people can interact with the water recycling process helping to increase understanding of its vital role in supporting communities and the environment.

We will create a Discovery Centre for visitors. This will provide an educational resource supporting the sustainability curriculum so that local children and communities can interact with and learn about the importance of water and the role which water recycling plays in the circular economy. Dedicated parking may be provided for visitors to the Discovery Centre at the gateway of the facility.

What opportunities would you like to see on offer at the proposed new Discovery Centre?

See Question 6 in our Feedback Form or visit our digital engagement platform via our website www.cwwtpr.com.



Computer-generated image showing visitor parking and potential access to Discovery Centre

People

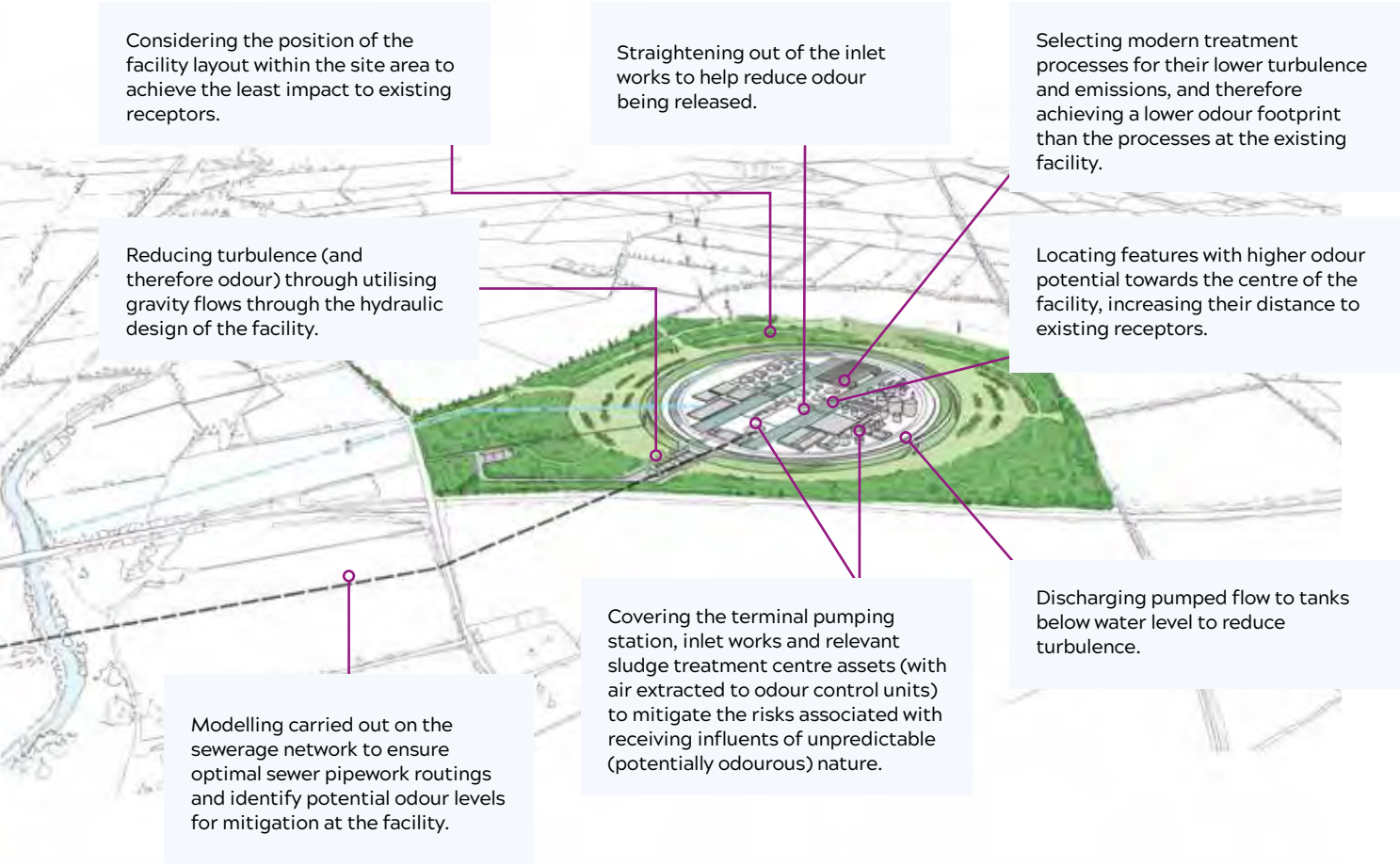


Minimising odour at source

Minimising odour as far as possible for local communities is of paramount importance to us. Whilst the nature of the job waste water treatment plants are designed to do means that it is difficult to eliminate odour completely, one of the benefits of the relocation project is that we can utilise the latest technologies and embed solutions into the design of the facility.

This, alongside using modern operational practices to control odour, both prior to it reaching the facility and once the waste water enters the treatment process, means that nuisance odour will not adversely affect people’s homes or enjoyment of the surrounding area.

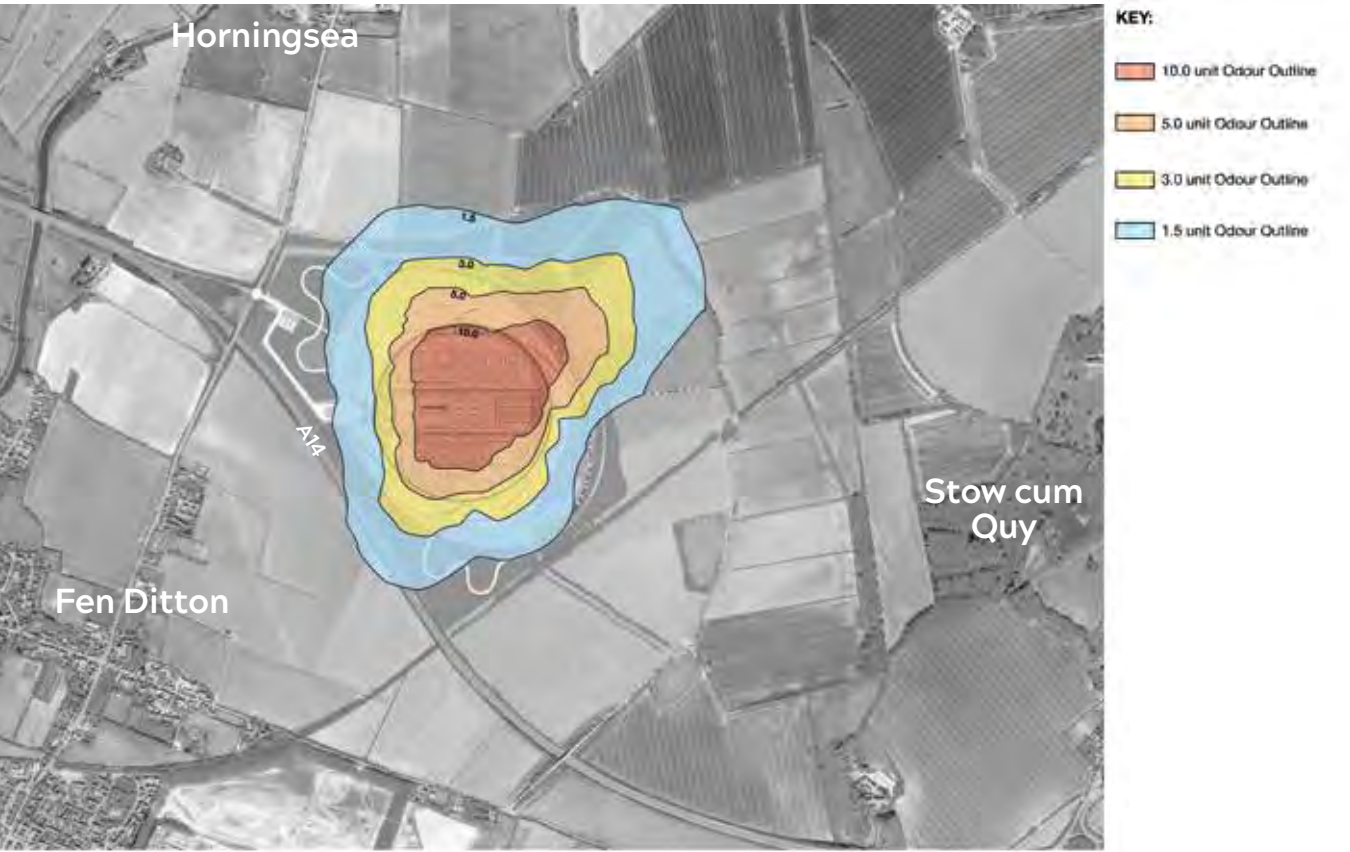
We have made a commitment to deliver the lowest, ‘negligible’ impact of odour at people’s homes, in line with the Institute of Air Quality Management (IAQM) guidance. Our Odour Statement, available on our website (www.cwwtpr.com) sets out the planned odour assessment methodology including the level at which odour is considered to have a ‘negligible’ impact.



Graphic indicating how we can minimise odour at source

Minimising the potential for an odour impact (higher than ‘negligible’) beyond the site boundary has been a key consideration, both at the site selection stage and throughout the initial design stages. The proximity of residential properties, recreational routes, prevailing wind direction, and community feedback are all being taken into account. It will continue to be a focus as the design of the facility evolves through the project life cycle.

We have been continuing to carry out dedicated odour assessment and modelling as part of our design process as the facility layout, process and technology choices continue to develop. Additional measures are being explored which will further reduce odour, including placing the most odorous elements at the centre of the site, flow handling techniques to reduce turbulence, and covering of process units where appropriate.



Indicative odour model output for the new facility

You can find out more about what we’re doing to minimise odour at source and deliver the lowest negligible levels of odour for local communities in our Odour Factsheet.

All of our odour assessment information, together with an odour management plan which we will consult local communities on as part of our phase three consultation, will be submitted for public examination as part of our final Development Consent Order (DCO) application to the Planning Inspectorate (PINS).

Places



We are committed to developing a high-quality design in partnership with the local community and other stakeholders. The project’s design takes its inspiration from the local landscape character – both past and present – creating a place with a strong sense of identity. This is to ensure that the new facility sits sensitively in and seeks to make a positive contribution to the local landscape within and beyond its boundary, enhancing the environment, providing new habitats for nature and creating a sense of place for visitors and local residents. We are asking for your views on the architectural finish of the externally facing buildings and features of the new facility. This includes a gateway building, the anaerobic digesters, and any screening on top of the earthwork bank.

Gateway building



Illustrative visualisation of the gateway building with a gabion wall architectural finish

What would you like to see prioritised in selecting the architectural finishes for the externally facing buildings and features of the new facility?

See Question 7 in our Feedback Form or visit our digital engagement platform via our website www.cwwtpr.com.

Anaerobic digester cladding



Illustrative visualisation of the anaerobic digester cladding with a natural, matt finish behind additional screening on top of the earthwork bank

Earthwork bank screen

Access to the top of the earthwork bank could provide opportunities for visitors to visually experience and understand the entire water recycling process within a safe environment, as well as enjoy views looking out onto the surrounding Greater Cambridge landscape.

We are exploring additional screening on top of the earthwork bank, which could utilise a variety of materials and forms, to further reduce visual impacts and create a welcoming place for visitors.



Illustrative visualisation of screening option on top of earthwork bank, see page 8 for a further option

You can find more visualisations on our digital engagement platform and virtual exhibition available through our website.

Places



Visual impacts and mitigation

The tallest element of the plant will be the two anaerobic digesters. They will be a maximum of 26m relative to finished ground level, and will therefore be visible above the earthwork bank, including any screen on top. We will deliver a comprehensive programme of additional landscaping including tree and hedge planting, supported by a long-term management plan, to limit the impact of our proposals on the views of local residents and users of local roads and footpaths. We will ensure that this planting is appropriate to the area and respects the landscape tradition and existing vegetation.

The illustrative visualisations that follow show examples of the likely visual impact once the construction of the new facility is complete and landscaping fully matured. We plan to phase the planting and screening aspects of the construction phase early on so they mature as the new facility is being built. You can access more examples and at different stages on our website: www.cwwtpr.com.

Do you have any further comments for us to consider when developing our proposals to mitigate the potential visual impacts of the new plant?

See Question 8 in our Feedback Form or visit our digital engagement platform via our website www.cwwtpr.com.



Current view from Horningsea Road



Illustrative visualisation of the new facility, with mature planting viewed from Horningsea Road



Current view from Fen Ditton



Illustrative visualisation of the new facility, with mature planting viewed from Fen Ditton



Current view from Low Fen Drove Way



Illustrative visualisation of the new facility, with mature planting viewed from Low Fen Drove Way

Places



Landscape and biodiversity

Our design proposals will support and, over time, enhance the natural environment and make a positive contribution to the local landscape and ecology beyond the site boundary.

One of the key ways Anglian Water is driving down its carbon emissions is through natural capital solutions such as rewilding. As well as helping us tackle our carbon challenge by reducing carbon within the region this also creates new habitats for wildlife, increasing biodiversity. We are currently exploring a range of options for landscaping and environmental mitigations beyond the edge of the facility's earthwork bank. This includes planting new woodland, which will introduce a new habitat and help to further screen the works from view, and creating new species-rich grassland meadow and hedgerows.

Our landscape proposals will seek to deliver the following environmental benefits:



A minimum of 10% biodiversity net gain



Aligning with the Wicken Fen Vision and Cambridge Nature Network



Up to 25ha of proposed new woodland, which could deliver around 60,000 trees



Up to 35ha of proposed new species rich grassland



Up to 4,000 linear metres of proposed new native hedgerow



Promotion of rewilding and regenerative farming

What would you like to see prioritised as we further develop our landscape proposals?

See Question 9 in our Feedback Form or visit our digital engagement platform via our website www.cwwtpr.com.



Aerial plan showing landscape proposals for our site

LEGEND

	Existing intermittent tree groups and hedgerow trees		Proposed native hedgerow and hedgerow tree		Proposed red line boundary
	Existing hedgerow		Proposed areas of Calcareous Loam Meadow Grassland		Proposed areas of off-site landscape enhancements
	Proposed areas of woodland		Proposed new pedestrian links		
	Proposed tree belts		Existing line of pylons		

Places



Permanent traffic and access options

The facility will require a new permanent access point for vehicles.

We have explored a range of potential vehicle access options, including through engagement with Highways England and Cambridgeshire County Council as the relevant highway authorities. Of paramount importance is the safety of all road users. A key consideration is also managing potential disruption to local communities and the existing road network.

As a result of this work, we have identified three potential access options for our proposals.

These are:

Option 1: Access off Junction 34 (Fen Ditton), which consists of two sub options (Option 1A and 1B)

Option 2: Access off Junction 35 (Quy)

Option 3: A new junction on the north side of the A14

We want to hear your views on these options. Feedback will be considered alongside our ongoing technical assessments and engagement with the relevant highway authorities to help us confirm the most suitable access solution. Your feedback will also inform associated mitigation measures that may be explored to further reduce potential impacts to the local community and surrounding environment.

Our Traffic and Access Factsheet provides more detail on each of these options, including consideration given to pedestrians and non-motorised users and our ongoing assessment process.

Which of our proposed permanent vehicle access route options do you think is the most suitable for the relocation project?

See Question 10 in our Feedback Form or visit our digital engagement platform via our website www.cwwtpr.com.

Option 1: Access off Junction 34 (Fen Ditton)

This option utilises the existing A14 slip road to access the site via Junction 34 of the A14, and off Horningsea Road. Sub-option 1A would involve a 'Ghost Island Junction', which includes road markings to create an additional lane for traffic waiting to turn right off Horningsea Road onto a new road to the facility.

Sub-option 1B would involve reconfiguring the existing junction between the A14 east bound exit slip road and Horningsea Road into a 4-arm signalised junction, also connecting to a new road to the facility.



Relatively low biodiversity and green belt impacts



Makes appropriate use of existing highway infrastructure and minimises new road construction



Keeps HGV traffic movements primarily to the strategic road network



Option 1B has minimal impact on non-motorised user (NMU) routes



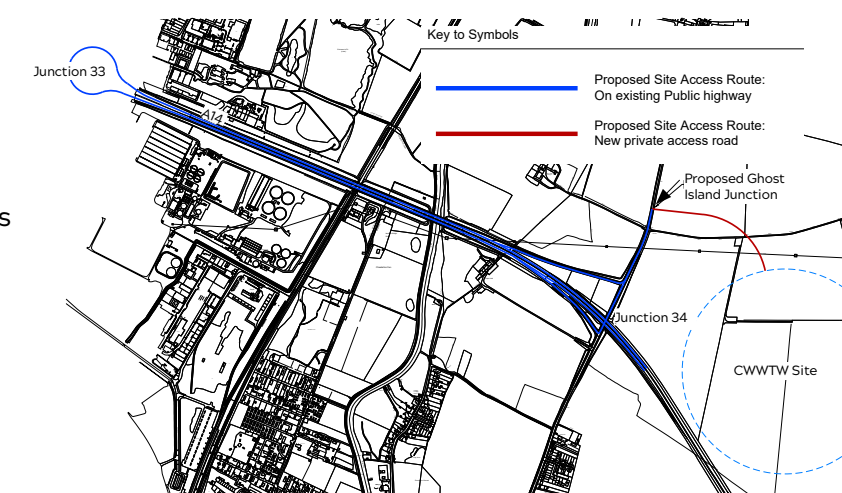
Compliant with local and national transport policies



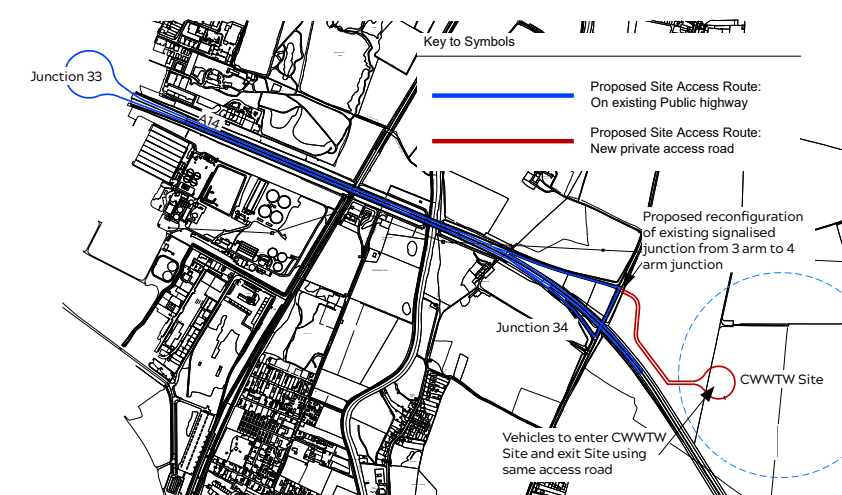
Option 1B potentially causes disruption or closure to the existing junction during construction of the new access, and requires larger volumes of material than Option 1A



Option 1A would require further land take and crosses existing Low Fen Drove Way and would require traffic management



Option 1A, requiring road markings to create an additional lane for traffic waiting to turn off Horningsea Road



Option 1B, requiring a 4-arm signalised junction off Horningsea Road

Places



Option 2: Access off Junction 35 (Quy)

This option utilises J35 south off the A14 and the existing highway network of Newmarket Road, High Ditch Road and Low Fen Drove Way. This would involve significant works to improve the existing highway network to mitigate the impacts of HGV traffic movements along the proposed routes. This includes junction improvements between Newmarket Road and High Ditch Road, the widening of High Ditch Road, the provision of a separate footway and cycleway, and improvements to the existing bridge on Low Fen Drove Way as it crosses over the A14.

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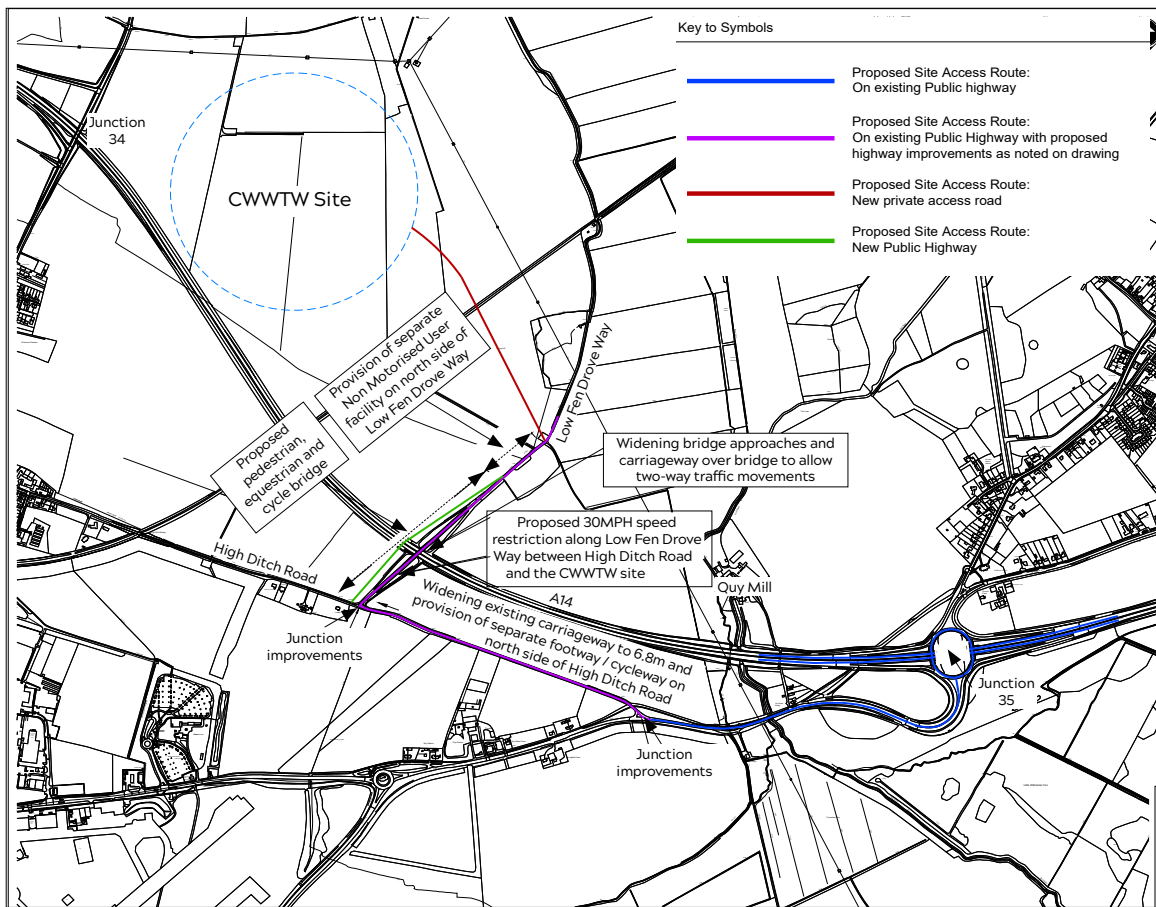
Provides east and west bound access to A14
- 

Closer to residential properties than other options (High Ditch Road)
- 

Largely relies on using existing A14 junction infrastructure, compliant with transport policy
- 

Requires significant improvements to the existing highway network to mitigate the impacts of HGV traffic movements along the proposed route and replacement access for non-motorised users
- 

Larger carbon footprint than other options



Option 3: A new junction on the north side of the A14

This option would involve constructing a new junction on the north side of the A14 only, between the current junctions 34 and 35. A new road would be constructed from this junction to the facility.

- 

Minimises the impact of HGVs on the wider highway network
- 

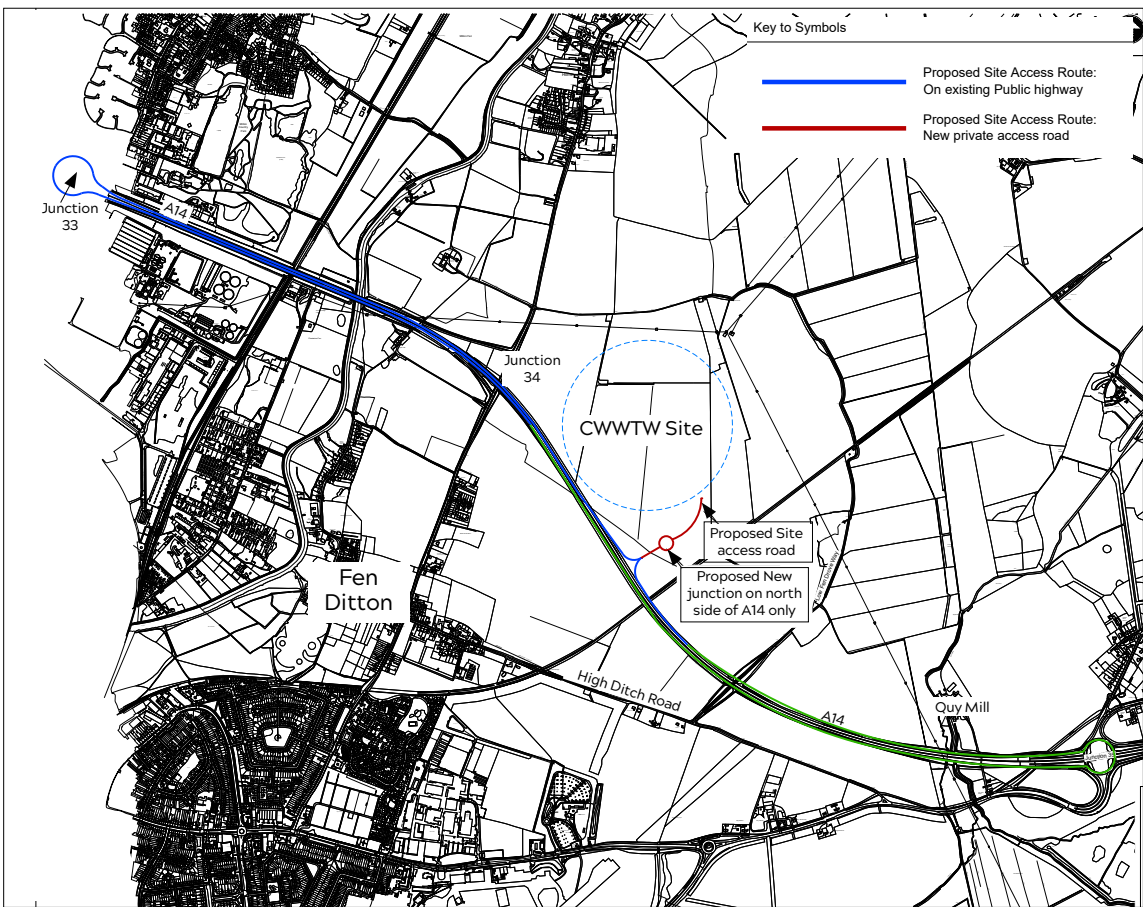
Significant construction work required and disruption to the operation of the A14 during this time
- 

No significant environmental impacts
- 

Highest programme and cost risks and challenges, as well as extending the length of time temporary vehicle access is required.
- 

Minimal impact on Green Belt
- 

Does not comply with Department for Transport policy on constructing additional junctions on the strategic highway network when there are other viable options



Value



Maximising public value

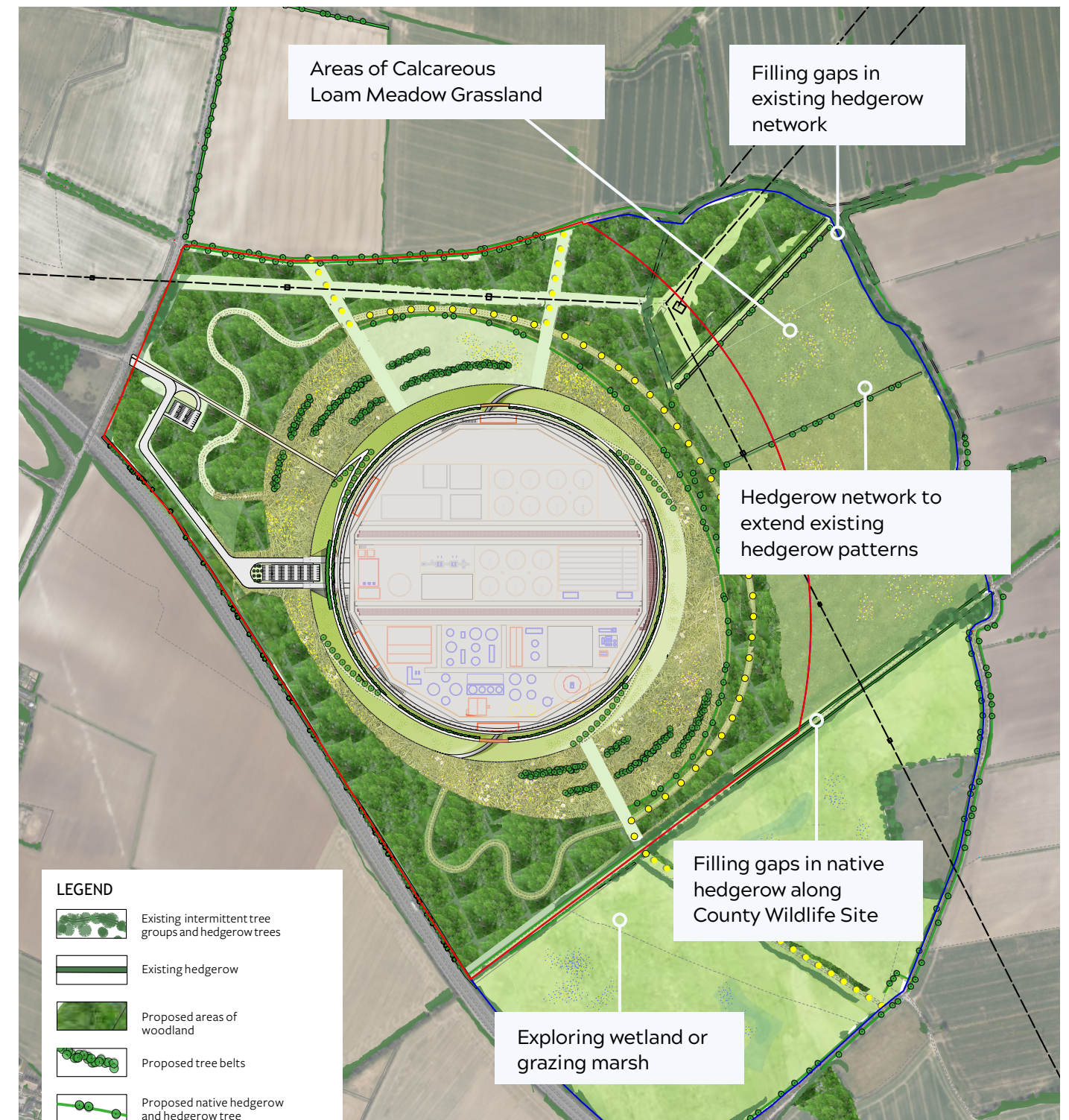
We want to use the opportunity this project presents to provide wider benefits and maximise the public value we can deliver. This will be achieved through a combination of our proposals directly and by working in partnership to support the delivery of local aspirations, creating value both within and beyond the boundaries of the project. This achieves the highest potential for realising environmental and social benefits as a publicly funded project.

As well as supporting Cambridge City and South Cambridgeshire District Councils to enable their long-held vision for a new low-carbon city district in North East Cambridge, we are also seeking to work in partnership with the local community, land managers and other stakeholders such as the National Trust, to unlock the potential for environmental benefits beyond the new site's boundary.

We are exploring collaborative opportunities to contribute to South Cambridgeshire District Council and Cambridgeshire County Councils' policy objectives of restoring wildlife on a large scale and doubling nature, as well as helping South Cambridgeshire to become zero-carbon by 2050. Our aspiration for maximising public value through the relocation project includes:

-  **Creating an entirely new, modern facility that will deliver for the climate, people and place as well as enabling the regeneration of North East Cambridge**
-  **Unlocking Cambridge City and South Cambridgeshire District Councils' plans for a new low-carbon city district, creating 8,000 new homes and 20,000 jobs over the next 20 years**
-  **Reducing the new facility's carbon footprint and generating renewable energy through sustainable design**
-  **Providing an opportunity to reduce heavy goods vehicle traffic at the A10/A14 junction, once the existing facility is decommissioned**
-  **Turning Greater Cambridge's waste water into a valuable source of renewable energy that may power the facility or heat homes before returning it to the River Cam**
-  **Improving green connectivity routes for pedestrians, cyclists and equestrians, better connecting the local community to nature and green spaces**
-  **Promoting restoration of wildlife on a large scale and contributing to doubling nature in Cambridgeshire**
-  **Aligning our plans to help enable the Wicken Fen Vision, The Cambridge Nature Network, and supporting the delivery of the Greater Cambridge Greenways**
-  **Exploring opportunities for reusing the water we recycle to further support local water resources, playing our part in protecting the future population needs**

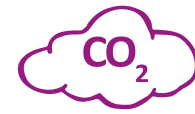
We are keen to explore opportunities to support wider benefits beyond our site boundary through working in partnership with local land managers. The image below shows what some of these opportunities could look like.



Aerial plan indicating environmental opportunities that could be delivered in partnership beyond our site boundary

What opportunities would you like to see us explore in our plans for the relocation project to deliver public value and promote collaborative opportunities?

See Question 11 in our Feedback Form or visit our digital engagement platform via our website
www.cwwtpr.com.



Climate

Net zero carbon

The design of the facility will contribute to Anglian Water’s goal to reach net zero carbon emissions by 2030 by reducing energy consumption and contributing towards the circular economy. The new facility will significantly reduce emissions compared to the existing Cambridge facility and will be operationally net zero. We will also seek to reduce “capital” or “embedded” carbon during the construction phase.

Reducing both capital and operational carbon is a key objective as we continue to develop the design of the new facility, including through the use of lower carbon materials. One of the benefits of the relocation project is that we will create a brand new, state-of-the-art net zero carbon emissions facility from scratch, with a reduced footprint of 22 hectares, around half the size of the current facility.

The opportunity to condense the footprint of the site, combined with new efficient treatment processes and harnessing renewable energy generation on site, will reduce the overall energy consumed. This smaller facility area and the compact design, alongside the site’s shorter distance to return treated water to the River Cam, reducing overall lifetime carbon emissions compared to the current facility.

You can learn more about how the new facility will contribute to our goal to reach net zero carbon emissions by 2030 in our Carbon and Climate Factsheet.

Flood risk

As a water company, it’s our job to treat and manage water safely and effectively. The new facility is being designed to treat the waste water of Greater Cambridge, prevent flooding by managing storm flows, and serve the environment. This includes taking account of a growing population and climate change.

The new site is located in the Environment Agency’s lowest risk Flood Zone 1. However, we will still be carrying out a detailed Flood Risk Assessment (FRA) for the project and consulting on this with the relevant Internal Drainage Board, Lead Local Flood Authority, and the Environment Agency. We are also exploring a range of Sustainable Drainage Systems (SuDS) to manage surface water on the new site and further reduce the risk of flooding.

More detailed information will be made available as part of our preliminary environmental information, which will be presented at our third phase of consultation next year. In the meantime you can learn more about what we’re doing in our Flood Risk and Climate Change Factsheets.

Are there any other measures you would like us to explore for the project to support climate change resilience?

See Question 12 in our Feedback Form or visit our digital engagement platform via our website www.cwwtpr.com.

Storm flow

Storm overflows also play a vital role in our combined waste water network systems as they work like pressure release valves to protect homes and businesses from flooding during periods of extreme rainfall. The Environment Agency (EA) issues permits for our storm overflows.

Over the next five years Anglian Water is investing £811 million as part of our Water Industry Natural Environment Programme (WINEP). This includes work on protecting the environment and improving river water quality. Ours is the largest plan of any water company, with double the number of obligations than in the last five years.

Working with the Environment Agency, we are also exploring alternative means of treating storm water with the objective of meeting better outcomes for the environment, utilising a less carbon intensive installation at the treatment facility. We continue to work with the Environment Agency to identify and implement the most appropriate storm management processes for the new works.

The pumping infrastructure of the new facility has been designed to receive all flow conditions (including storm) without having a negative impact on the existing Cambridge sewer network. Should the level of flow ever exceed the facility’s ‘flow to full treatment’ capacity, storm pumps will start working to divert the excess incoming flows to the facility’s stormwater storage and treatment plant. This stormwater management solution will be in accordance with the agreement reached with the Environment Agency as part of the treatment facility permit, and will greatly minimise the risk of release of raw sewage to the environment.

Growth and resilience to climate change

For 125 years the current site on Cowley Road has been serving the needs of Cambridge and Greater Cambridge and we want the new facility to continue to provide these vital services, treating waste water and storing storm flows to serve a growing population for as long as, or even longer than, the existing facility has done.

One of the benefits of the new site is that it was found to be the best long-term strategic option, providing a sustainable location away from the Cambridge Urban Fringe and areas of potential future development. We have used a 2050 ‘Design Horizon’, which is typical when planning such facilities to accommodate changes in water usage, demand management and population growth. The design will include for flexibility to alter the internal facility footprint after this design horizon to enable it to respond to growth past 2050 without the need to expand outside the current 22 hectare site area.

The new facility is being designed with provisions for climate change resilience. The new facility sits outside the high flood risk area. We will work with the Environment Agency to ensure that the facility is designed to be resilient to increases in rainfall and extreme weather into the 2080s. The new tunnel infrastructure and storm handling capabilities of the new works has been modelled using a 1 in 100 year storm return period.

The construction phase

We appreciate that our chosen construction and assembly methods can impact the local community if they are not mitigated and managed robustly. We are committed to minimising these potential impacts.

Construction programme

Technical studies, environmental surveys and further consultation on the proposals will continue until 2022. Following this, if our application for a Development Consent Order (DCO) is approved, construction and decommissioning works will then commence on-site from 2024. We expect these works will take four years to complete, with most of the construction work carried out in the first two and a half years, before the new facility becomes operational in 2028.

Mitigating impacts and promoting good construction practice

Through our construction and commissioning works we will adopt good practices that reduce our impact on the community and environment. We are aiming to be an exemplar delivery scheme and we are working to identify solutions that reduce our impact. For example we are looking to:

- Reuse excavated soils within the design, minimising the waste that has to be removed from site
- Specify the works materials to be used, so that we can promote the use of recycled products
- Utilise and reuse materials from the existing facility, where appropriate
- Promote offsite fabrication and assembly techniques to reduce traffic movements and time on site
- Reduce our carbon impact by 70% when compared to a baseline delivery model.
- Minimise our energy and water needs and explore providing these through renewable methods

We will also develop a number of focused plans to manage issues that may arise through construction. These include:

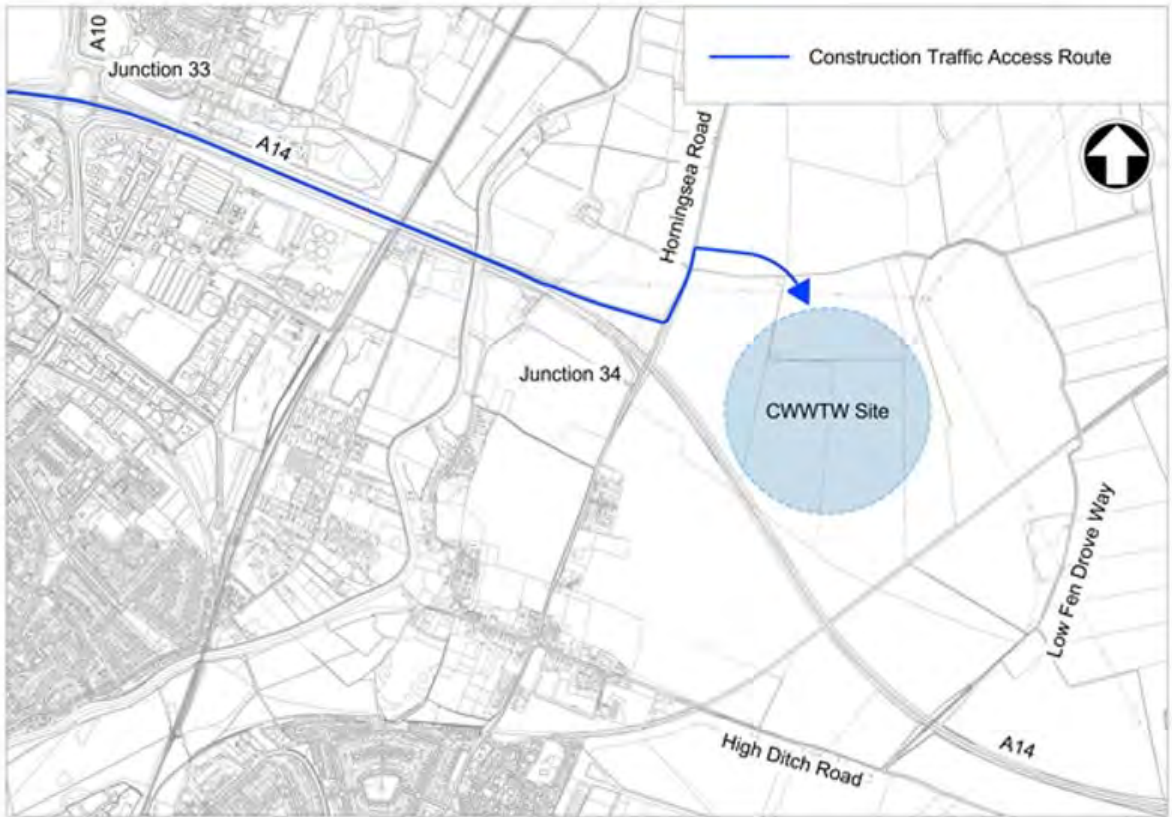
- A **Construction Environmental Management Plan** to respond to and mitigate the environmental, ecological and community impact identified during the design stage
- A **Traffic Management Plan** to manage construction traffic flows
- A **Health, Safety and Welfare Plan** to manage health safety and welfare risks on site
- A **Green Transport Plan** to reduce our transport needs and our impact on the local area
- A **Community Engagement Plan** to drive better communications and integration with the local community

Local communities and stakeholders will be consulted on these as part of our phase three consultation before we submit our DCO application. Our factsheets include more detail on our emerging construction information.

Temporary access requirements

A separate, temporary access will be required for preliminary construction works, which we anticipate will be from Horningsea Road. Therefore, should Options 2 or 3 be selected for for the permanent access, it is likely that construction traffic would initially access the site via Option 1A until the permanent access has been constructed. You can find out more about these permanent access options on pages 24-27 of this leaflet.

We are continuing to consult with the relevant highway authorities to explore access for construction traffic which minimises disruption to local communities. Site access will be designed to segregate vehicles and pedestrians, as well as delivery vehicles from private cars. Sufficient parking and storage areas will also be provided so that our site operations do not impact the local area.



Plan showing anticipated temporary access for preliminary construction works.

Construction traffic

It is estimated that construction traffic will range from 100-200 vehicle movements per day (one movement each time a vehicle either enters or leaves the site), to 200-300 vehicle movements per day during the peak of the construction period (estimated within the first two and a half years of construction), as well as light delivery and construction worker traffic.

Indicative construction activities and the estimated construction vehicle movements associated with each activity

Vehicle movement for specific tasks	Vehicle movements per day
Imported stone for site infrastructure and temporary working platforms	55-70
Large concrete pours to bases of process units	120-150
Arrival of precast concrete units for tank walls	35-50
Road surfacing material	25-35

Are there any other measures you think we should consider when preparing for the construction phase of the project?

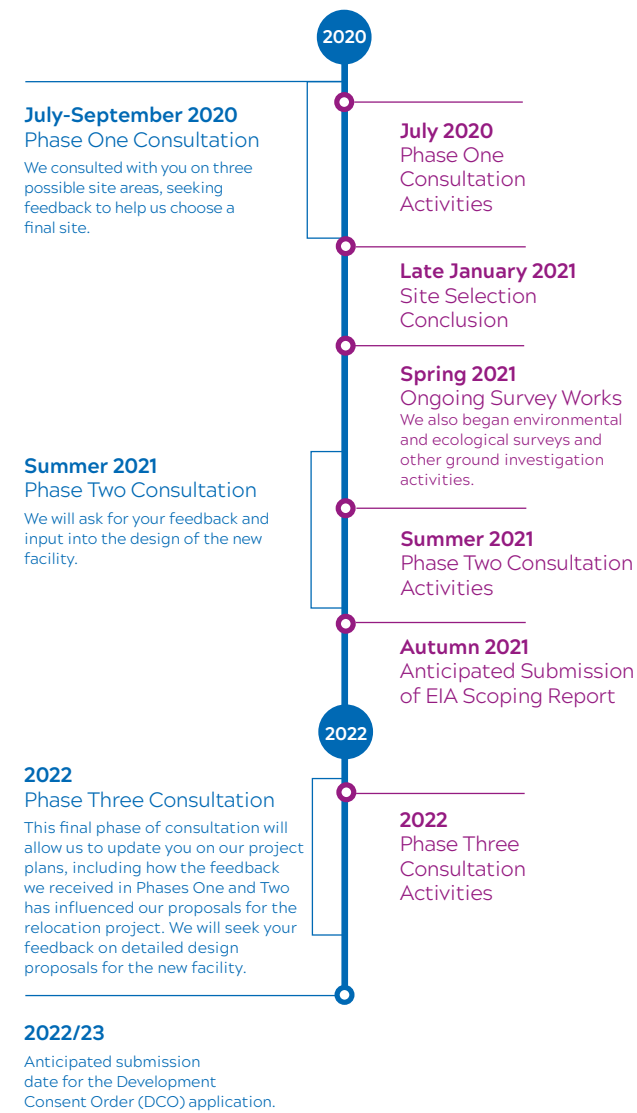
See Question 13 in our Feedback Form or visit our digital engagement platform via our website www.cwwtpr.com.

Next steps

Following the end of our phase two consultation on 18 August, we will take the time to carefully consider all feedback received. This will be considered alongside our studies, surveys and ongoing technical assessments to help us develop our detailed design proposals. This includes measures to reduce potential environmental impacts and enhance the surrounding environment, such as for areas for landscaping, biodiversity and recreational amenity, and connecting pedestrian and cycle routes.

We are undertaking a full Environmental Impact Assessment (EIA) for the relocation project, which will inform our developing design. EIA is a detailed process where the likely environmental effects of the proposed development are studied, surveys are carried out and mitigation measures to reduce or remove environmental impacts are identified. This includes continuing to carry out environmental and ecological surveys, ground investigation activities, and gathering additional archaeology and local heritage information and survey data, before submitting our initial EIA Scoping Report to the Planning Inspectorate (PINS) later this year. We will present the findings of our preliminary environmental studies in our Preliminary Environmental Information Report (PEIR) as part of our phase three consultation next year, where we will seek feedback on the detailed environmental information presented, and mitigation measures proposed.

Community consultation timeline



Get in touch

Our dedicated project website, email address, Freephone information line and Freepost address are open if you have any questions.

You can contact us by:

Emailing at info@cwwtpr.com

Calling our Freephone information line on **0808 196 1661**

Writing to us at **FREEPOST: CWWTPR**

Visiting our website at www.cwwtpr.com

Hard copies of consultation materials are available during the consultation period from the locations listed below. If you would like this document in large print, audio or braille formats, please contact us using the details above. Requests for translated summary documents will also be considered.

Community access points

- South Cambridgeshire District Council,**
South Cambridgeshire Hall, Cambourne Business Park, Cambourne, Cambridge, CB23 6EA:
Mon – Fri 8am – 5:30pm
- East Cambridgeshire District Council,**
The Grange, Nutholt Lane, Ely, CB7 4EE:
Mon – Fri 8:45am – 5pm
- Bottisham Library Access Point,**
Bottisham Village College, Lode Road, Cambridge, CB25 9DL:
Tue 6pm – 8pm, Thu 3pm – 5pm, Sat 10am – 12pm
- Waterbeach Library, Community Centre,**
High Street, Waterbeach, Cambridge CB25 9JU:
Open for appointments
- Barnwell Road Library, 87 Barnwell Road,**
Cambridge CB5 8RQ:
Tue 10am – 2pm, Fri 1pm – 5pm
- St. Peter’s Church, St. John’s Lane,**
Horningsea, Cambridge CB25 9JQ:
Wed 10am – 3pm, Sun 10am – 3pm



Get in touch

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Visiting our website at www.cwwtpr.com



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All graphics and maps in this document are for illustrative purposes.

