



Cambridge Water **Draft Water Resources Management Plan 2024** – Statement of Response

Securing your water future



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1. Introduction to our statement of response

Summary

Every water company in England and Wales must produce a Water Resources Management Plan every 5 years. This plan looks at the predictions for water demand over the next 25 years, and what water supply is available to meet this demand. It then details how it will ensure it meets this demand through a range of potential demand management options and new supply options.

We produced our draft WRMP24 and submitted it to the Environment Agency in October 2022. Following a review, we were given permission by Defra to publish this plan and have sought public consultation on this over a period of 14 weeks.

The statement of response details the feedback received and our response to it. In some cases, this will have led to a change or update in our plan, or we will have provided more evidence or clarification in the detail of the plan.

We will submit a revised draft WRMP at the same time as this statement of response so that it is clear what impact any changes have had on the plan and will enable more detail to be shared.

1.1 Public consultation on our draft water resources management plan

On 3rd October we submitted our draft Water Resources Management Plan 2024 (WRMP) to the Environment Agency. The Water Act 2003 states that companies must publish their draft plan within 30 days of notification that Defra is not proposing to give any direction (under section 37B(10) of the Water Act 2003) to amend the plan on the grounds of national security. We received this notification from Defra on 9th November 2022.

We published our plan on 24th February on our website and notified key stakeholders (as specified in the WRPG) of the consultation period, directing them to the website and advising that a paper copy of the plan is available if required. These stakeholders included:

- the SoS;
- the Environment Agency;
- Ofwat;
- Regional Development Agencies within our area of supply;
- Regional Assemblies within our area of supply;
- local authorities within our area of supply;

- Natural England;
- the Historic Buildings and Monuments Commission;
- Canal and River Trust;
- Severn Trent Water; and
- CCWater.

Our draft plan was out for consultation for 14 weeks, and consultation closed at midday on Friday 19th May 2023.

Throughout the consultation period we answered various queries from both the Environment Agency and Ofwat. In addition, we held two stakeholder engagement webinars designed to share the detail of our WRMP with stakeholders in our area. Attendees included representatives from the following organisations:

- Cam Valley Forum
- Cambridge City Council
- The Green Party
- Friends of the Cherry Hinton Brook
- Hobsons Conduit Trust
- Household customers

1.2 What is a statement of response?

This statement of response shows questions or clarifications that our stakeholders have asked us and our response to these. In many cases we have responded to the point entirely within this document but, in other cases, we have addressed the point or made the suggested change in our revised draft Water Resources Management Plan (rdWRMP) and highlighted the location of this updated in this statement of response document. In addition, we have:

- Updated our demand profiles to take into account the post Covid-19 impact and provide the most up to date view.
- Updated our headroom profiles accordingly.
- Made changes to our plan based on customer and stakeholder priorities identified as part of our PR24 programme. For example, we have reviewed our metering programme.

Where we have addressed a point or made a change in our rdWRMP we have referred to this in our statement of response and signposted where in the rdWRMP we have made the appropriate changes.

1.3 The process of developing our statement of response

The total time between publication of the draft WRMP for consultation and submission of the statement of response is 26 weeks. Our consultation period ran for 12 weeks and therefore our statement of response was due for submission 14 weeks later on 25th August 2023.

Although not mandatory, we will also be submitting a revised draft WRMP in conjunction with our statement of response. This is because we believe it is the clearest way to show the changes we have made to our plan as a result of the feedback we have received through consultation. This means that our statement of response, in some areas, provide a high level overview of the change and will direct readers to a certain section or chapter of the revised draft WRMP to see the detailed response. This document will be published on 29th September 2023.

We have held review sessions with the Environment Agency, Ofwat and Historic England during the development of the statement of response to ensure all feedback points are properly understood and to share our proposed approach to these points.

We have addressed each point individually in our statement of response. We have grouped the feedback by responding stakeholder organisation (alphabetically) below in order to make it easier for those who responded to identify the actions we have taken that directly relate to their feedback. We have also included, in chapter 2, an overview of the feedback under the key themes we identified to provide an overview of the resulting changes.

1.4 Consultation Responses

We received responses from the following organisations:

- Angling Trust Eastern Region
- Arquiva
- Cam Valley Forum
- Cambridge City Council and South Cambridgeshire District Council (joint response)
- Cambridgeshire County Council
- Consumer Council for Water
- Environment Agency
- Everflow
- Gamlingay Parish Council
- Green Party: Cambridge and South Cambridge
- Historic England
- Hobsons Conduit Trust
- Marshall Group Property
- MOSL
- National Farmers Union (NFU)
- Natural England
- Ofwat
- Strategic Panel & Committees
- Water Resources East
- Waterwise

We have also received a response from one of our household customers and we will also address these comments in our statement of response.

Outside of the consultation process a letter was received from Defra and Rebecca Pow MP to all water companies referencing smart metering, and we have included this in our statement of response too.

1.5 Timetable

We will submit our statement of response on 25th August 2023 and publish this on our website. We will submit and publish our revised draft WRMP on 29th September 2023.

We will publish our final WRMP on our website once the Secretary of State has authorised us to do so. Copies will also be made available at our head office.

2. Key Feedback themes

Summary

The consultation feedback can be grouped into key themes:

- Demand forecasting
- Environment
- Options
- Best value and alternative plans
- Demand management
- Application of drought measures
- General

In this chapter we share a high level overview of the feedback received within each of these key areas and the impact this has had on our plan.

2.1 Demand Forecasting

As part of our plan, we forecast the future demand for water from both households and nonhouseholds. As with supply forecasting, it is important that we forecast this as accurately as possible so that we do not under or over-estimate any investment that may be needed in order to meet future demands.

The Cambridge region is forecasting some of the highest levels of growth in the country over the lifetime of our WRMP. This relates to both household and non-household growth. Some of the feedback we received on our draft plan highlighted concerns with the growth forecast we were using and the need to ensure that it incorporates the known plans whilst balancing potential additional aspirations. It is important, as highlighted in the Water Resource Planning Guidelines, that the WRMP plans for the know, published local plan growth, particularly early in the planning process. It is our statutory duty to plan for this, but we must ensure that we do not propose additional spend to meet growth projections that are not yet confirmed or approved, as this is not the right approach for either our customers or our environment.

As a result, we have worked closely with Greater Cambridge Shared Planning over the summer of 2023 to ensure that our household and non-household forecasts directly reflect their published plans. We have correlated this to employment predictions and jointly agreed on the profiles that we have selected for our baseline planning. We do some scenario testing on this level of growth too by looking at lower forecasts, such as ONS, and higher forecasts. We cover these in sections 11.7 and 11.8 of the revised

draft plan where we highlight the impact this would have on our preferred plan and the alternative pathways we would take should these come to pass.

We have been working closely with Defra, the Department of Levelling Up, Housing and Communities (DHLUC) and the Environment Agency to ensure that the proposed growth in the Cambridge region can be delivered sustainably. Following the announcement by the Prime Minister and the Secretary of State for DLUHC, Michael Gove, on 23rd July¹, we are working collaboratively with all organisations involved in the new Water Scarcity group and welcome the joint approach to resolving the water scarcity challenges in Cambridge.

We also received a query regarding our baseline water efficiency work i.e., what work we currently do to reduce consumption for non-households and households. We have included detail on this in section 11.1.3 and 11.1.4 respectively in the main plan.

2.2 Environment

We have included sustainability reductions in our plan in AMP8 following our investigations relating to "no deterioration" in AMP7. These licence caps are designed to prevent any additional growth in the area being supplied through increased abstraction from our existing groundwater sources. Since submission of the draft WRMP, we have now agreed these licence changes with the local Environment Agency team, and we have included the details of these caps, the locations and the catchment impacted in section 6.9.3 of the plan.

We did received feedback on our draft plan raising concerns about the risk of deterioration of our environment due to our current level of abstraction in the short to medium term. Our plan relies on demand management to offset the forecasted increases to demand caused by the significant growth planned for our region, and we cover concerns around demand management, and how we've addressed these in the revised draft plan in section 2.5 below.

During AMP7 we have undertaken investigations to understand and agree the required licence reductions required across our sources to ensure no deterioration to the environment from the current position. These reductions are required by 2030. However we need supply side options in order to continue to meet the future demand needs of our customers whilst making the abstraction reductions we need to make from our existing sources to meet the needs of our environment both for no deterioration and in the future under the environmental destination proposals. These supply side options, such as Fens Reservoir, have significant lead in times although we are accelerating these as far as possible.

Following feedback from the Environment Agency on our draft plan, our 15 Ml/d Grafham Transfer detailed is now no longer a feasible option due to its reliance on an Anglian Water drought permit and the sustainability of this. We had also applied for this option to be accelerated through the Defra Accelerated Infrastructure programme, but for this reason it was rejected. As a result, we have identified a new option of a transfer of water from Grafham Water, which we detail in section 2.3 below

¹ Long-term plan for housing - GOV.UK (www.gov.uk)

which can now deliver more water to our area – an increase from 15 Ml/d to 26 Ml/d. However, where the original Grafham transfer would have been available in 2030, the new transfer will not be available until 2032. This means we have a short period of time between 2030 and 2032 where we will be applying for IROPI in order to delay a proportion of the licence caps (approximately one third) until this transfer is in place to ensure we can continue to meet customer supply.

In our draft WRMP, we planned to meet the BAU+ environmental destination scenario and some of the feedback we have received has challenged whether this scenario is the right one to deliver the necessary environmental improvements. At this stage, there is still a high level of uncertainty regarding the true scale of the abstraction reductions required and we have planned to undertake investigations during AMP8 to help clarify these and any other actions that will be required in order to support this delivery. As a result, we have continued with BAU+ as our environmental destination scenario in the revised draft WRMP, aligned with other companies within Water Resources East, but of course this will be reviewed in WRMP29 following the results of our AMP8 investigations. Currently we are planning to deliver the environmental destination abstraction reductions by 2040, ahead of the National Framework end date of 2050.

We have also included a scenario in section 11.7 of the plan that shows the enhanced scenario as an adaptive pathway in our plan, should our AMP8 investigations show this is the required level of reduction. This outlines the necessary actions we would need to take in order to meet this level, and when we would need to take these actions.

In our consultation feedback, we received various comments relating to our environmental assessments. For both the SEA and NCA, the scope was developed in 2021 and we undertook a consultation process on this at the time to ensure all key stakeholders had the opportunity to input to this. We have developed these assessments based on that scope, and so any points that relate to additional requirements outside this will not be undertaken or updated as part of this process.

We have made some changes to our SEA and NCA based on comments received to ensure methodology descriptions are sufficient detailed, that the links between the plan objectives and these key documents are aligned, and to signpost information more clearly.

Climate change is a clear focus for the plan, and we have assessed the impacts of this on a number of areas:

- Raw water availability
- Raw water quality
- Water demand
- Environmental needs

We have included more information on these elements throughout the plan, and particularly in section 6.6 of our plan following feedback stating it wasn't clear how we had assessed some of these areas.

In our original submission, we had not adequately met direction 3(d) regarding to the inclusion of an assessment of the greenhouse gas emissions from both our current operations and total emission forecast for future operations across the plan period. We have now included this detail in section 11.11 of the plan. We have also included details of our journey to net zero in our plan in the same section.

2.3 Options

The feedback we received regarding our options mostly related to the quantity of supply and demand options we have as feasible options in our plan. Having too few options could mean that there is limited choice which means it is difficult to be confident that a proposed plan truly is the best value plan available.

At the pre-consultation stage of our draft WRMP development, feedback from the Environment Agency and other stakeholders meant that most of groundwater options and licence trades could no longer be classed as feasible due to groundwater availability in our catchments and those of our neighbouring companies Anglian Water and Affinity Water. Our initial list of unconstrained options totalled over 130 – through the robust screening process this has been reduced to 18 which highlights the scale of the challenge within the Cambridge region which is nearly 100% chalk aquifers. However, through engagement with Water Resources East, Water Resources South East and Water Resources West, we believe we have a wide range of different supply option types available for selection in our plan. These include:

- New reservoir
- Water re-use schemes
- Water transfers from other water companies
- Enhanced groundwater options
- Greywater reuse systems
- Rainwater harvesting schemes
- Potable water transfers

As mentioned in section 2.2, there has been a change to our Grafham Transfer option following feedback from the Environment Agency on our draft WRMP. This original 15 Ml/d option had a reliance on an Anglian Water drought permit, and this was determined to be an unsustainable approach. As a result, we have worked with Water Resources East and Water Resources South East to identify an alternative option. In conjunction with Affinity Water and Anglian Water, we now have an option that would see Cambridge Water receive a transfer of 26 Ml/d from Grafham Water. This water becomes available through the selection of the 100 Ml/d Grand Union Canal strategic resource option in Affinity Water's WRMP which in turn enables them to reduce their current transfer from Grafham transfer, thus making water available for transfer to Cambridge Water. As this option relies on the building and commissioning of the GUC option, and the related Minworth strategic resource option, this transfer will now be available in 2032 as opposed to the original 2030 timeline.

This increase in water availability means that there are additional impacts on the options selection in our plan. Fens Reservoir continues to be selected as soon as it is available in 2036 due to the need to meet our environmental destination requirements and Anglian Water's licence caps. However, it does delay the timing of our groundwater option of the Fenstanton borehole. Natural England raised several concerns with this option, and the later selection in our programme now enables us to undertake additional investigations to resolve all of the assessments and queries.

In our original data tables in our draft plan submission, we only included the preferred demand side options. However, there were multiple other options identified and assessed as feasible options for leakage as well as PCC and non-household consumption reduction. These have now been included in the updated data tables submitted with this statement of response, and more detail describing these options has been included in the narrative in chapter 9.5.6.

2.4 Best Value and alternative plans

It is important that we are able to demonstrate that our plan represents best value. A best value plan is one that considers factors alongside economic cost and seeks to achieve an outcome that increases the overall benefit to customers, the wider environment and overall society.

Our draft WRMP represented our best value plan. This is also our least cost plan. Our preferred plan is delivered in part through demand management and the achievement of the national targets for household and non-household consumption, as well as leakage, and this offsets the forecasted growth in the region, particularly in the early years of the plan. The scale of the environmental needs and the licence reductions we must take to protect this means we also need supply options, and as detailed previously, our scope of feasible options has been significantly reduced following pre-consultation and consultation on the draft plan. We cover alternative plans in section 11.8 in the revised draft WRMP.

Some changes to the activities may well make a certain AMP period cheaper, particularly at the start of the planning horizon. This could be utilised if there are significant cost challenges elsewhere in the business e.g. large scale investment required for water quality that would lead to a significant and unacceptable bill increase for a period of time. Our customers have told us that, if bills must increase, they do so steadily in order to help them manage the increases.

Our best value plan for the draft WRMP represented a linear profile for achieving leakage, which aligned with our customer preferences for affordability. Since the submission of the draft WRMP, we have been undertaking more work on the development of our PR24 business plan. Here we also develop the rest of the business needs for 2025 to 2030. With a view of these investment needs, we can understand the overall impact to customers and identify whether we need to impose any additional constraints on our decision making around the demand management trajectory to align with this. We discuss any constraints to our decision making process in a new section of the revised draft WRMP, section 9.7.

Through our PR24 customer engagement work, our customers have repeatedly told us that leakage must be a key priority and we should go further faster. As a result, our revised draft WRMP now demonstrates that we will achieve the 50% leakage reduction target by 2040 as opposed to the Environment Act target of 2050. Our optimisation work has shown that this is feasible, deliverable and the additional cost of this programme is modest compared to the benefit delivered.

As we have updated our demand side activities for the revised draft WRMP, this has led to the cost for these activities being updated, particularly for the delivery of the water efficiency and metering elements. In order to put that into context, we have included a view of the bill impact in the revised draft WRMP in a new section 12.3.

We have also included more detail in section 11.7 of the revised draft WRMP to demonstrate why our preferred programme represents the most likely scenario, how this relates to our core pathway. We also cover why we believe this represents low regrets investment to meet future uncertainties and how it allows additional flexibility in the future.

In order to demonstrate that our plan is robust and resilient to uncertainty, we test it against a range of scenarios. We received feedback that more information on the outputs of this scenario testing would help clearly demonstrate the impact these scenarios would have on deliver, and particularly on cost. We have included additional information in section 11.7 of the revised draft WRMP that articulates these scenarios and the outputs of these. These scenarios correlate with Ofwat's common reference scenarios.

One element that is important in the scenario testing, due to the level of uncertainty associated with it and the scale of the potential impact on the available supply, is the environmental destination. The low environmental destination scenario would be BAU+ with those reductions that have a high level of uncertainty associated with them removed, as agreed locally with Environment Agency teams. Through our engagement and discussions with these teams, they have confirmed that our low scenario should be the same as BAU+. While the scenarios are designed to understand, in part, changes to the cost of programmes, this is not therefore application for Cambridge Water for environmental destination as a lower environmental destination does not lead to a lower cost plan.

These scenarios highlight where we may need to take an alternative pathway if we are to ensure we continue to maintain a positive supply demand balance. We have included a new chapter in the revised draft WRMP, section 11.8, that takes the outputs from the scenario testing and identifies any alternative pathways that are required alongside our preferred plan should we need to adapt in the future. We show the impact if our demand management activities only delivered 50% of the demand reduction we are forecasting, and also a pathway that would be taken should our AMP8 environmental destination WINEP investigations show that the Enhanced scenario level is reductions is in fact required. In this section, we also look at how we'll monitor against our plan and the trigger points for these adaptive pathways.

For our draft WRMP, we assumed that metering delivered no direct water saving benefits. Instead, we viewed it as an enabler, allowing other mechanisms to provide more efficient and cost effective leakage reduction and water efficiency activity e.g. innovative tariffs. Following feedback from Ofwat and the Environment Agency, we have updated this for the revised draft WRMP. We have engaged with other companies who have undertaken extensive smart metering campaigns in AMP7 and taken their detailed evidence of the savings identified. As such we have updated our planning assumptions so that a household meter delivers 13% benefit upon installation. This means our costs for delivering water efficiency activities have reduced as we are delivering some of these benefits through the metering campaign.

In addition, through extensive planning and engagement with our supply chain, we have updated our metering costs and reduced these in the revised draft WRMP. We have also reviewed our leakage programme, as mentioned previously, and have updated these costs also.

Some of our consultation feedback highlighted that there were gaps in some of the data in the planning tables that means it wasn't always possible to understand the costs and benefits of options and programmes. We have updated these and they will be submitted alongside this statement of response. We have also been able to fill in gaps that were left due to timing – some elements of the tables relate to the PR24 business plan, and at draft submission stage it was too early to have these plans fully formulated. These are now updated and we have also updated costs of options and programmes where we have reviewed.

We have demonstrated, in a new section 9.8, how we believe our plan aligns with Ofwat's public value principles and ensures we deliver better social and environmental outcomes as a result.

2.5 Demand Management

Our preferred plan relies on demand management in order to offset the increased demand resulting from the significant growth forecasted in our region, particularly in the early years of the plan. As a result, it is important to clearly articulate the detail behind these plans and we received feedback during consultation that we needed to provide more information in this area, including on how we will deliver these activities, how we will monitor our performance and what we will do if we are off-track. We have provided additional detail covering these areas in section 11.3 in the plan. This details:

- Our approach to monitoring performance this includes reporting via our annual review of our WRMP and delivery of our performance commitments for certain elements that will be incentivise out performance and penalise for failed delivery.
- What we will do if we're off track alternative activities and trigger points for initialising these.
- Other activities to support our engagement and participation in the Water UK water efficiency roadmap and leakage roadmaps, innovative trials and third party engagement.

In our draft plan, we did not include for uncertainty in the delivery of demand side options in our target headroom calculation headroom. As our preferred plan depends wholly on demand side options, it is important that any uncertainty is included. Therefore, we have undertaken an assessment for headroom component D4 (uncertainty associated with demand side options) and included this in our target headroom calculation, which has also been updated in the tables.

We received many comments relating to smart metering. Many consultees are supportive of universal metering proposals, emphasising the need to ensure these are delivered as quickly as possible in order to recognise early benefits. We were asked to demonstrate the different profiles we had explored for metering, explain further why we have proposed the programme we have and how that represents best value. Recognising the ambitious rollout will have an impact on our customers, we were also asked to provide more information on how we propose to support our customers through this transition, particularly those who will see a cost increase to their bill as a result.

At the draft plan submission stage, we were still working through the details of the types of support packages we could offer to our customers as we rollout universal metering. Since then we have further developed these and we have now included section 11.1.2. in the revised draft plan which shares the

detail behind these proposals. We are still working on the detail behind some of these schemes, and the list is not exhaustive at this stage as we continue to develop our plans in this area prior to our business plan submission in autumn 2023. Elements we have included are:

- We aim to have a maximum of 3% of our customers in water poverty by 2035
- We will expand our existing Assure programme to support nearly twice as many customers in AMP8 as we are supporting in AMP7
- We will provide a 2 year grace period for meter rollout. Customers will have 2 years from the date of meter installation before we switch to metered billing so we can provide them with regular consumption and proposed bill data. This will enable them to understand the impacts and plan for the potential changes were required.

Following feedback from both the Environment Agency and Ofwat, we have reviewed our initial approach that installing a smart meter does not on its own deliver any direct water saving benefit. In our draft plan, we assumed it worked as an enabler to allow delivery of other water saving activities e.g. innovative tariffs. However, we have since reviewed the findings from others in the industry who have undertaken extensive smart metering campaigns in AMP7 to identify the typical savings they have observed from installation of smart meters. As a result, we are now including a benefit where we install a meter into a household that previously was unmetered which equates to a 13% reduction in consumption per person. This has also been updated in the data tables.

This change means that metering now delivers a proportion of our proposed PCC reduction programme. As a result, we have reviewed the water efficiency proposed options and the scale to which they will be needed in the early AMPs of the project which means the overall cost of the PCC reduction programme has reduced.

We have reviewed our metering programme since our draft plan submission as we have been developing our business plan submission for AMP8. We have reviewed different delivery profiles and timing, and have shown these scenarios, the costs and benefits of each in section 10.1.2. Here we provide the detail as to why we have chosen to progress with our particular metering strategy.

Our universal metering programme applies to both household and non-household customers. We intend to fit smart meters to our entire non-household population over the next ten years. We will undertake this as a joint programme of work with the household rollout as many of these businesses are small local businesses e.g. hairdressers, shops etc. It is more economical to combine the programmes so that we can target installation geographically. This also means our communication can be more streamlined and it is clearer for all customers where sit within our plans.

At draft plan stage, we (and our sister company South Staffs Water) were the only companies to include a reduction to non-household consumption in our plan, aligned to the Environment Act targets have were proposed at the time. With the release of the Environment Improvement Plan 2023 in January this year, the targets were confirmed of 9% reduction in non-household consumption by 2038 and 15% reduction by 2050. As a result, we have increased our non-household water efficiency activity in our revised plan in order to ensure we deliver the new 2050 target of 15% reduction in non-household consumption. The Environment Act target looks to deliver a 9% and 15% reduction from the 2019/20 baseline demand position. In the Cambridge Water area, non-household growth is set to lead to an increase in demand of 54% by 2038 from this 2019/20 position. As such, it is not possible to reduce non-household consumption by 9% from this 2019/20 number – this would equate to all new non-household growth being water neutral as well as delivering reductions to existing business customers. Our 2019/20 non-household demand was 22.65 MI/d – in order to achieve the 9% target, we would need to reduce non-household consumption by 14.54 MI/d by 2038, when taking into account the proposed growth. As a result, we have instead planned to reduce non-household consumption by 2038. Likewise, our plan sees us deliver a 15% reduction in consumption by 2050 compared to the 2050 forecasted consumption.

We are proposing to work with retailers to enable additional water efficiency services such as water efficiency audits, advice and incentives, as well as data reviews to enable targeted interventions to save water both through consumption and leakage. We are also working closely with Defra, DHLUC and the Environment Agency in conjunction with the Government's new Water Scarcity Group, to identify additional opportunities to reduce and offset the demand of the ambitious growth plans in the region.

Since the submission of the draft plan, we have seen the publication of the Environment Act targets, the Environmental Improvement Plan 2023 and the Government Plan for Water. Our draft plan already included most of these targets, but the Environmental Improvement Plan (further supported in the Plan for Water) included new interim demand management targets. We have updated our profiles for demand management to ensure that we meet these interim and final targets for leakage, household and non-household consumption and demand per capita. We believe our plan aligns with the objectives in these plans.

The Plan for Water highlights the £400m of infrastructure investment that has been accelerated by Defra since the submission of the draft WRMP. We submitted a bid to accelerate some of our proposed investment identified in our draft WRMP and were successful in being awarded funding to accelerate both our household and non-household metering programmes. This enables us to start these programmes earlier than 2025 and therefore deliver the associated benefits sooner. We have included more detail on this in section 10.1.2 of the plan.

2.6 Application of drought measures

We received several comments on our inclusion of drought measures in our planning, and whether our approach to these is suitable. We have included our drought measures as instructed by the Environment Agency and these directly correspond to the drought measures detailed in our latest drought plan which we published in April 2022. For Cambridge Water, we have no drought permits or orders that deliver supply side benefits. Our drought measures relate to demand management, i.e. temporary use bans (TUBs) and non-essential use bans (NEUBs). As the data tables represent a 1 in 500 year drought, this corresponds to level 4 in our drought plan. TUBs are a level 2 measure and NEUBs are a level 3 measure and so both of these could have been implemented. We have only included TUBs and not NEUBs benefits in the revised draft WRMP due to uncertainty and the unlikelihood they would be in for every year in a dry year 1:500 drought, particularly linking to the economic implications of doing so.

Continued use of a non-essential use ban would cause significant challenges for multiple businesses in our area and therefore this is not a sustainable option for selection. The benefits included are the same as those included in our drought plan.

Temporary Use Bans (TUBs) and None-essential use bans (NEUBS) application and triggers are developed and detailed within the drought management plan rather than the WRMP. However we have committed to a review of our drought triggers and this will look at the frequency at which these demand restrictions may be required as well as when these should be instigated. TUBs and NEUBs have a part to play in the reduction of demand. However, we know from 2022 from the companies that did use TUBs that reductions in demand are not sustained. We believe that we need to educate customers on the water resource situation and the critical link to the environment, and then support them to make sustained changes to their behaviours if we are truly to deliver the level of ongoing reduction we are targeting. This is the basis of our demand management plan, centred around universal metering, which will provide the data and information to support this activity.

As directed in the updated Water Resource Planning Guidelines issued in March 2023, we have included a new appendix with the revised draft WRMP which provides information on the drought in 2022, our response to this and key lessons learned.

2.7 General

One area of concern highlighted related to the quality of areas of our data table submission. We have worked closely with the Environment Agency since to submission to resolve any outstanding errors. In addition, the updated Water Resource Planning guidelines provided some additional clarity and detail regarding certain elements of the data tables in order to remove and reduce errors, and we have followed this updated guidance when updating the data tables for this revise draft plan submission. We have also added an additional data assurance step into our review, so there is now another internal review step prior to submission to identify any anomalies or errors.

As stated above, in mid-March we received the updated water resource planning guidelines (WRPG). We have followed these revised guidelines in developing our revised draft WRMP, and new areas include:

- Inclusion of any Defra accelerated spend approved and the impact on the plan.
- Development of an appendix detailing the 2022 drought and any implications on the plan.
- Detailing our contribution to the Environment Act 2021 water demand target.
- Providing clear and robust justification for any significant differences to the supply demand balance between the beginning of the WRMP24 planning period and the final plan 2024-25 figure.

3. Responses to Consultation Feedback

Summary

We have collated the feedback from each organisation set these out in individual sections below in alphabetical order of the organisation.

In some cases, we may provide a high level overview as a response and point the reader to a specific chapter or section within the revised draft WRMP to provide the detail. This will enable readers to understand the full impact and provide a clearer narrative in relation to the rest of the plan.

3.1 Angling Trust Eastern Region

Consultation Comment	Response
What I want to press on is the reference to section 2.1	Our draft WRMP reflects the regional plan
and Water Stress and Environment Impact from this	produced by WRE, of which we are a core
stress caused today and more importantly in the future.	member, by planning for the BAU+
WRE changed their stance on deficits supporting	environmental destination scenario. These
environment destination last summer. It's clear within	abstraction reductions are included in our
their regional plan that a destination of BAU+ is the	planning, and we are also planning to
current ambition, but with additional evidence available	undertake investigations over the next
by 2030 the additional abstraction reforms to sustain an	three years to clarify the exact scale and
enhanced environment destination will become clearer.	location of the abstraction reductions
Your WMRP is stating some defined hard numbers of	required for this longer-term
deficit by 2050, there is currently a significant gap in	environmental protection. We have
what the final environmental needs will require and this	included more information in the revised
must be reflected in the ambition of your WRMP. The	draft WRMP, section 11.8, on a potential
pressures on the environment will only grow more, until	adaptive pathway that would be required
additional supplies are available (Fen Reservoir) by the	if we determined through this work that
mid 2030's. So this venerability must be stated within	the enhanced scenario is required. This
the WRMP.	outlines the additional actions we would
	need to take to enable this, and by when.

3.2 Arqiva

Consultation Comment	Response
We encourage Cambridge Water to pursue an ambitious	Through discussions with our supply chain,
rollout of AMI within the 2025-2030 period, to help	we have identified a programme of

ensure the delivery of its benefits to demand reduction	delivery that we believe is ambitious yet
are not delayed.	deliverable.
	Many water companies are proposing
	universal metering programmes
	throughout AMP and AMP9 as part of
	their WRMPs and we need to
	acknowledge the impact this will have on
	the existing market. Our plan has been
	developed with our delivery partners to
	ensure that we can meet our level of
	ambition as well as ensure the programme
	is deliverable.
	We propose to utilise both AMR and AMI
	technology. There are situations where
	AMI metering does not vet prove to be
	cost beneficial due to the additional
	infrastructure costs required e.g. in rural
	areas
	Combridge Water were successful in our
	bid for funding to appolarate our universal
	bid for funding to accelerate our universal
	smart metering rollout programme, and
	we are starting this in AMP7 now which
	will accelerate the delivery of our plan.

3.3 Cam Valley Forum

Consultation Comment	Response
The Chalk aquifer is now the wrong source for the great	Our draft WRMP outlines our approach to
bulk of public water supply.	reducing our abstraction from the chalk
We are taking far too much water for domestic	aquifers by more than 50% by 2040. In
supplies relative to that which the Chalk springs had a	order to make the necessary reductions in
century ago. This results principally in us being in 'a	chalk abstraction we need to build new
water stressed region', not because of rainfall water	supply options, and the development time
shortage per se but mostly because we just desire too	for these are our current constraints to
much of it and from the wrong places. The Chalk was	applying these restrictions. Our plan
and should be the reservoir that gives a Chalk streams	outlines that these new supply options will
its resilience. Over abstraction takes that away.	be in place as soon as is practically
	possible and the abstraction reductions
	will then be able to take place.
There is just not enough water. We need immensely	Our plan looks to reduce our current
more environmental ambition from you. Your job is not	abstraction by over 50% through the
just water supply if the cost is harm to the environment.	development of new sustainable water
Environmental benefits need to be counted as credits	sources. One of these new sources, the
for the health and well-being they bring.	Fens Reservoir, brings opportunity to
	provide additional health and well-being

	opportunities through the development of footpaths, cycleways, bridlepaths and other potential amenities such as fishing and sailing. We are committed to delivering at least 10% biodiversity improvement through all of our new schemes.
This region is experiencing a worsening of environmental condition, an erosion of Natural Capital - manifesting itself in failing ecosystem services (like ground water!) and in bio-diversity loss. The despair that we experience, at this state of affairs, is not helped by the huge pressure from local building development and human population growth. In short, we people are out of ecological balance with our environment, and time is not on our side to correct it. Your water supply is not used sparingly and it is certainly too cheap for its value; your superb treated drinking water is invariably 'wasted'. Restraint, in water use, is called for. But it is not yet in the public's perception to change our ways.	Our draft WRMP outlines our approach for improving water efficiency across our household and non-household customers. Through the installation of universal smart meters, we will be able to provide customers with information to help them understand their usage, as well as education, advice and support to help them make practical and sustainable changes to reduce this. Our proposal to undertake home visits to those properties with high consumption will allow us to review water use and wastage and the property and take steps to reduce this through provision of water efficiency devices, education and leakage identification and repair. We believe that a national approach is needed if we are to make significant changes to our relationship with water and we want to work with other companies and sectors to help deliver a step change campaign, such as that undertaken for recycling. In addition, we welcome the news of Ofwat's innovation fund for water efficiency to help support drive innovation and progress in this area.
We are however very disappointed that there is absolutely no mention of the National Chalk Restoration Strategy (CaBA-CSRG-Strategy-MAIN-REPORT-FINAL- 12.10.21-Low-Res(1).pdf)	Our chalk stream restoration work forms part of our Water Industry National Environment Programme (WINEP). This is our programme of environmental improvement, where the WRMP focuses on water resource supply and demand. However, for the revised draft plan we have added section 11.10 which shares the detail of our WINEP programme, and more specifically, our chalk stream river restoration programme and how it links into the National Chalk Stream Restoration Strategy.

What is disappointing to us now is the recognition that the pace of change in improving environmental management shown by the water companies needs to	We are working closely with Greater Cambridge Planning, the Environment Agency and Defra to ensure that the
that we also are being required to seek.	Water Scarcity Working Group that has been convened by the Department for
	the Environment Agency, Ofwat, central and local government and innovators
	across industries to accelerate plans to address water scarcity in the area. This proposal it outlined here <u>Long-term plan</u>
	for housing - GOV.UK (www.gov.uk).
Do you evaluate past plans?	We review our position each year against
What have you learned that can be built on now?	our forecasted position in the most recent WRMP. We also undertake a review and
	lessons learned exercise upon submission
	of a WRMP. There are various learnings
	from previous plans:
	 ONS data has been lower than
	local plan data to ensure we're
	forecasting the most appropriate
	demand.
	Regional planning ensures that
	baseline assumptions are the
	same across companies and
	options such as trades and
	transfers that previously were less easy to identify.
	Early engagement with customers
	is key to understand the priorities
	on our customer engagement for
	WRMP24 to ensure we capture a
	wider representation of customer
	views.
	For each WRMP, the Environment Agency
	issues the planning guidelines to which we
	we must incorporate compared to
	previous rounds. The Environment Agency
	are already reviewing the guidelines for

	WRMP29 and we have met with them to
	provide input to this process.
In evaluating the tone and the attitude of these	Our licences have two conditions – an
successive plans there is a noted improvement in your	annual average which outlines the amount
interest in environment but it is still hard to feel that	of water we're allowed to take in a year,
you have not been forced into it when you have only	and a peak capacity which shows the
recently been finally forced to cutting abstractions. Your	maximum we can take in a day. We fully
Head Room Licence cannot be utilised without	support the need for reductions in these
considerable harm being done. The fact that you are	licences and our plan outlines how we can
overlicenced is not a defence for your actions. Nor is it	achieve this as soon as is practicable.
your fault that demand has become so great, but we do	
welcome the reductions that are now being asked for.	
It is difficult to get through all of it [(the WRMP24)]	Thank you for your feedback – for the
when the Appendices are often pretty important as well.	revised draft plan we have ensured all
In expecting your readers to get to grips with the many	acronyms are removed or fully explained.
hundreds of presented pages the WRMP should aim for	We have also updated table 9 to show full
greater accessibility. Repeatedly the water industry	source names.
acronyms will not be understood sufficiently without	
greater explanation. We noted more than 50 little	
known water industry acronyms. In addition to these, in	
the main daft plan there are 20 or 30 more source	
names for deployable outputs in abbreviation form e.g.	
in Table 9, these are all referred to without any	
explanation as to exactly what thy refer to at all. If these	
are Environmental Agency 1. Base Year Licences (as is	
intimated) it is unclear as to how to even find out what	
they are! All this drives bewilderment for the reader.	
For the Ricardo report on Water Framework Directive,	These options have been assessed based
your consultant was presumably required to assess the	on a typical site that may be suitable for
possible non-compliance of new proposals. We would,	such a scheme, applying some local
however, question the competence of this particular	knowledge on where larger developments
report or reporter. We suggest this as there is allusion to	are currently proposed. In the end the
options for harvesting grey water at Northstowe (in the	Northstowe site was not used so this
Old West River catchment not the Cam catchment);	naming should be disregarded, and
CW2438A & CW2438B do not seem to appear in the	reference made to the option pro forma.
main drafts. The consultant's allude to them as large	specific consultation regarding this
scale (A) and small scale (B) water storage at	option would require developer input.
Northstowe but this cannot possibly impact either	which we are unable to make comment
Cherry Hinton Brook or Bottisham Lode (which they	on at this stage.
caution), as they are in an altogether unrelated	
catchment Area. We suggest that the consultant has not	No change needed - WFD assessment has
done their searches carefully at all. One is tempted to	assessed the correct water bodies based
ask whether they have even visited the County! If	on the location of the option. The option
OfWAT make such reports conditional for submitting a	name may have driven this comment as
WRMP someone (you or OfWAT) ought to be critical of	the actual rainwater harvesting area is not
what they are feeding to you. In the Ricardo report on	very close to Northstowe.
Biological Net Gain, there is no indication whatsoever of	

them having consulted with Natural England, the Environment Agency or the Local Wildlife Trust. Cambridge is full of experts on the ground but you are not getting very good advice here. Chalk Streams: Channel Modification has gone on for centuries, with dams, weirs and mills being the start, but in the past century machine dredging for drainage has been thoughtlessly applied. Too few now have meandering beds over bright gravel. They are often	Engagement has been via the initial methodology for the draft WRMP. Key consultation points for regulators and stakeholders are via the statutory SEA scoping stage and this draft WRMP. We are also proposing more of this activity in our Chalk Stream River Restoration work as part of our Water Industry National Environment Programme between 2025 and 2035. More details are
deep cut, shaded, silted and embanked to their detriment. This is the first vital step to remedy. As you know Cambridgeshire is investing in this work with help from you. This we welcome.	draft WRMP.
Chalk Streams: Pollution Although pollution is not part of the WRMP itself, it is a huge part of good management in what you supply. We welcome the fact that you do mention this as a supply- side concern. We would not want any let up on nitrate pollution monitoring. We do note however, that you are adding phosphate, to the drinking water as a de- plumbisation measure (stopping old lead piping from releasing lead). Could this practice be reviewed as lead piping becomes an older aspect of the mains water supply piping network? Is the level of your phosphate additions really needed? The shameful state of this Cam pollution is in large part attributable to our own very low summer Chalk Stream base flows which would enormously dilute this pollution were it not for over abstraction. This pollution spin-off from over abstraction is certainly your concern and responsibility to address.	The Drinking Water Inspectorate regulates our drink water quality standards. Over time, the standard for lead in water has reduced, and in order to meet these standards we need to dose with phosphate. Whilst we do look to replace lead pipes, this process will take many years. In addition, this does not take into account customer owned supply pipes. As such, we need to ensure we are also taking this into account with our dosing levels. We undertake an annual risk assessment and this determines our dosing rates. As pipes are replaced over time, then dosing would reduce accordingly. As detailed above, we plan to reduce our abstraction from chalk aquifers by over 50% by 2040 and this will help restore base flows. However, pollution also must remain a focus, and we have been expanding our work with farmers and landowners in our catchment to help reduce fertiliser and pesticide use and run- off, as well as improve drainage and chemical storage, all to assist with quarter quality. We will continue to expand this over the coming years to deliver further benefits. The reductions we must apply to our
Chalk Streams: Over Abstraction	The reductions we must apply to our
Cambridge Water and the EA have commissioned much	licences are prescribed to by the
research on the Granta Catchment over decades. (see	Environment Agency. Our longer-term

Streetly, Bishop, Bradley and Dunscombe Managing public water supply abstraction from a Chalk aquifer to minimize risk of deterioration of ecological status). One might ask why you did not focus more on this as the basis for the cuts in abstraction the EA has required of you?	abstraction reductions are proposed in the Environment Agency's National Framework for Water Resources, published in 2021. As we describe in section 6.10.1 we will undertake a series of investigations between 2025 and 2030 to determine exactly what reductions are required and at which sources. These investigations will take into account information such as this as well as building on our no-deterioration assessments undertaken between 2020 and 20205.
Chalk Streams: Over Abstraction Page 5, Paragraphs 2&3 and Table 1. Nowhere in your	We have added a new 4 th paragraph into our summary under section 1 to
plan do you explain that the degree of flow of a Chalk stream relates directly to the intensity of abstraction from its aquifer. This needs saying forcibly to customers as it is why alternative sources of supply are so essential	emphasise this link.
for the future.	The descriptions "business as usual" and
Chalk Streams: Over Abstraction Your Water Resources Management Plan does not begin to acknowledge the status quo as being one that is deeply unsatisfactory. For this reason we do find expressions like 'business as usual' or 'no deterioration' as being totally unacceptable. Improvement on the status quo is the only respectable ambition. Abstraction should be capped at current usage levels and actual abstraction reduced as fast any alternative sourcing can be found.	The descriptions "business as usual" and "no deterioration" are those used by the Environment Agency as part of their review of sustainable abstraction. No deterioration means we have assessed our proposed future demand to understand whether it would cause any deterioration from the current environmental status. This does not mean that deterioration hasn't already happened – it refers to the future risk of further deterioration. In reality, some of the licence caps being applied through this mechanism will cap abstraction at levels lower than current usage levels. Business as usual, or BAU, is a scenario outlined in the Environment Agency's National Framework for Water Resources 2021. This title is indeed misleading, as this scenario does not imply that nothing needs to done – instead it aims Support the recovery of degraded rivers and water- dependent environments to meet existing targets and prevent further deterioration ('BAU') Achieve sufficient flows in waterbodies to support 'Good' ecological status under the Water Framework Directive (WFD), apart from waterbodies

We are wary of an over-reliance on modelling and would encourage the gathering of more local data. There is plenty of evidence of rising summer temperatures, earlier springs and longer summers. This all means greater evapotranspiration and less guarantee of available groundwater.	considered uneconomic to improve within River Basin Management Plans (RBMPs). Both of these elements are driving a reduction of over 50% of our abstraction. We have undertaken investigations between 2020 and 2025 to help inform our plans, and will undertake further investigations between 2025 and 2050 in order to determine the required abstraction reductions required and at which sources.
In thinking about water shortage we would urge that much greater attention be given to the soil moisture deficits. If soil moisture deficit (SMD) is raised more from the higher summer temperatures and longer summer seasons, then the ground-water sourcing of Chalk streams is greatly affected, as eventually also will be the sourcing of our public water supply. In this the Chalk streams are the canary in the coal mine. Summer evapotranspiration presently exceeds rainfall in an increasing period of summer months.	Soil moisture deficit forms a key part of our drought monitoring and our drought plan. As you are aware, we are currently reviewing our drought triggers and will ensure that environmental factors are fully considered.
You claim "we have undertaken studies to identify the actions required to make our system resilient to a 1 in 500 year drought, where the previous requirement was a 1 in 200 year drought". This must be a rather hollow statement when there are so many unknowns. Customers should be very happy to just receive what you provide so cheaply!	The Water Resource Planning Guidelines, issued by the Environment Agency, detail the requirements we much follow when developing our WRMP. One of the requirements for this WRMP was to increase our system resilience to a 1 in 500 drought. This means that in any year there is a 0.2% chance of us needing to deploy extreme drought measures e.g. standpipes in the street. Through modelling historic drought conditions we are able to determine the requirements we would need to ensure we are resilient to this level of drought. Upon commissioning of the Fens Reservoir we will achieve this level of resilience.
We note that 'In April 2021 the Panel agreed with the Company (South Staffordshire and Cambridge Water) a plan for an independent challenge by the Panel of the customer engagement to be undertaken by the Company in its water resources planning cycle WRMP24.' We do feel that this is in one respect the right approach. Since then two of our committee members (at your invitation) have attended meetings of the Challenge Panel but they have not found it easy to question key fundamentals as we see them, but they	Thank you for your feedback and your continued engagement on our customer challenge panel. Whilst we produce a separate WRMP for Cambridge Water and South Staffs Water, we operate under a single licence and therefore operate as a single company with distinct supply areas. We therefore have a single customer challenge panel which also supports our business plan development and

have pushed for universal metering, which Cam Valley Forum does support fully. The idiosyncrasy of South Staffs having one Challenge Panel when there are two utterly different water resource regions involved (WRE and WRW) in environmentally different parts of England is frankly ridiculous given that Cambridge's concerns centre principally on your supply-side sustainability. To represent these two different areas of England together when they have such different needs is a not sensible. In Cambridge, we'd like to see a totally local company with	submission. Our business plan covers both regions as detailed above.
Wide representation and get back to where once were. We feel that Cambridge customers will become much more welcoming of the environmental improvements that are needed - like higher rates of fixing leakages, more advice on water saving, greater insistence on water saving technologies in new buildings, increased pace of metering, etc. When our local authority is onside, as it is now, in pressing the reality of a "water crisis" there is no point in the Company pussy-footing the message and trying to please everyone.	As part of the development of the draft WRMP we have engaged with a wide variety of customers, from different backgrounds and of different ages, in order to understand their priorities and then to test our plan with regards to acceptability and affordability. Whilst we have seen an increased environmental requirement from customers compared to WRMP19, there are understandably concerns around affordability and customer impact, particularly due to the current economic situation in the UK. We have to ensure that we factor this, as well as our commercial customer feedback, into our plans and also ensure that all investment is low or no regrets. We believe our plan balances these elements, and we continue to work with Water Resources East as well as Defra and the Environment Agency to ensure that all sectors are involved and committed to the actions that are required to meet the needs of our region.
In Cambridgeshire a major change now to a water saving culture will be essential if our Water Company is to fully achieve its WRMP. To achieve that cultural change requires forces to impinge on you from the media and Local Authorities as well as from customers. OfWAT (who with the EA and WRE) now have an environmental duty to ensure sustainability will not be slow to ask for General Performance Commitments that may well entail higher pricing for water. We do recognise that water is presently "too cheap", in terms of the environmental cost to deliver it, and it has not been valued enough or priced well in recognition of its true worth. There are	As part of our business plan for 2025 to 2030, which will be submitted in October 2023, we will be set Performance Commitments by Ofwat. This will ensure that we deliver on key areas of our plan and apply penalties where we do not. Key performance commitments relate to biodiversity, leakage, household consumption and non-household consumption. This covers our commitments in the WRMP and some elements from the Water Industry

hard times ahead for water users here - not least	National Environment Programme
because we have simply not been managing a model of	(WINEP). Other elements in the WINEP
true sustainability to date. Your performance	and also our universal metering
commitment will need to be judged by achieving	programme will be covered by a Price
environmental benefits. Customers will be right to	Control Deliverable (PCD) – this will also
demand visible improvements to the presently over	ensure we are monitored to deliver what
exploited Chalk aquifer environment.	we have outlined, and where we under
	deliver, money must be returned to
	customers.
We have no reason to question any of your and Artesia's	There is a full detailed insight to the
research into Demand, but it would be good to know the	methods employed by Artesia when
nonulations sampled and the sample sizes and when	developing demand forecast in the
and under what conditions it was done. There is a lot of	Demand appendix in the 'micro-
difference in measuring attitudinal things between	component section'
chiective sociometric methods and some sorts of	Artesia are industry experts in the field of
marketing research. It is obviously difficult for you to	water domand and as such have been
marketing research. It is obviously difficult for you to	sommissioned extensively across the
assess. We are of the first optimion that growing towards	commissioned extensively across the
a local water saving culture and having it in place with	water industry to carryout insights into
customers is a very important component in getting this	Several water companies demand analysis.
right. Cam valley Forum itself has a small water	Artesia use this experience and data
Conservation Group . As you know they are willing and	capture to inform our demand forecasts in
able to work with you in this respect.	conjunction with our own customer data
	sets. The forecasts will have been
	developed using data from thousands of
	properties and samples over many years.
	Much of Artesia's research is gathered
	from Household consumption monitors
	and surveys. We would welcome forging a
	close working relationship with the Cam
	Valley Forum's 'Water Conservation
	Group'.
As you know, Cam Valley Forum is strongly in favour of	We have stated in our plan that current
using TUBS as a tool where there is severe shortage. This	abstraction levels are unsustainable, and
needs to bite at a much lower water shortage threshold	that is why our draft WRMP looks to
than your current TUBS trigger levels require. As we see	reduce them by over 50%.
this it is simply a question of Cambridge Water wanting	Temporary Use Bans (TUBs) application
more disciplined water use from its customers in	and triggers are developed and detailed
recognition of the fact that we have an unsustainable	within the drought management plan
and fragile source. If you just maintain that your	rather than the WRMP. However, as you
operation is completely sustainable we just want to	are aware, we have committed to a review
know why do the rivers dry up? That question was asked	of our drought triggers and have
in 2019 and in 2022 when other water companies went	committed to sharing this process with
into Temporary Use Bans and you resolutely did not. It is	vou.
a nonsense and we did not give the right message here	TUBs have a part to play in the reduction
If you acknowledge the fragility of the ecosystem we are	of demand. However, we know from 2022
using many more people will cooperate and save	from the companies that did use TLIPs that
water (see metering below). The same is true of the	reductions in demand are not sustained
water (see metering below). The same is that of the	

need for better education of all children and adults	We believe that we need to educate
about water. We understand that the TUBS regulations	customers on the water resource situation
are in terms only of available supply. That availability	and the critical link to the environment,
needs to have much better environmental triggers to	and then support them to make sustained
arbitrate on usage.	changes to their behaviours if we are truly
	to deliver the level of ongoing reduction
	we are targeting.
Many people in Cam Valley Forum question the wisdom	Water companies are not statutory
of such massive projected developments as that	consultees for development, however it is
occurring around Cambridge. We do recognise that	our statutory duty to plan for the
Cambridge Water Company are not easily able to refuse	forecasted level of growth in our region.
to supply such developments because of their position	We are working closely with Greater
as the only supplier, albeit with a monopoly. At the	Cambridge Planning, the Environment
same time, we do not see it at all as the role of our own	Agency and Defra to ensure that the
organisation to oppose all development on principle.	growth in the Cambridge region is
We are of the strong opinion, though, that development	sustainable. We are working with the new
must be in balance with the environment in terms of	Water Scarcity Working Group that has
honoring Natural Canital and ecological sustainability	been convened by the Department for
Both of these have not been followed in the past to our	Levelling Up. Housing and Communities.
national detriment. With respect to Ecosystem Services	the Environment Agency, Ofwat, central
water has a special position in needing to be fully	and local government and innovators
available for the natural environment and farming and	across industries to accelerate plans to
food production etc. Our society is rather mindlessly	address water scarcity in the area. This
driven by a physical growth agenda which too easily will	proposal it outlined here long-term plan
drive down the bonoring of a Common Resource like	for housing - GOV LIK (www.gov.uk)
Water. This is the reason why we have nushed bodies	
like Water Resources East to see that Common Resource	
management is not subject to market forces alone. We	
need regulators and regulation to rule over what will	
otherwise be our undoing	
We know nothing of Artesia as your consultants. In	
E 10.1 the conclusion (Artesia as your consultants. In	
5.10.1 the conclusion Artesia work round that	
emperature, substine and rainal remain the key	
demand ' is fairly obvious. Demand connect just he on	
demand. Is fainy obvious. Demand cannot just be an	
in 5.11 perce 1 (it has an incomplete contenes)	
In 5.11 para 1.(It has an incomplete sentence)	Fourth a new inside dura ft M/DMD was have
reducing Leakage. Firstly, this is the subject which	For the revised drait wrive we have
visitor companies. It is therefore disappointing to be	caken on board your comments and
water companies: it is therefore disappointing to be	ensured that we have outlined the
unable to the down the problem of actual volumes of	numbers cleany in section 11.1.1. Our
water leaked per unit time. We could find no record of	projected leakage level by March 2025 IS
what attainment in saving will be achieved by the close	15.2 IVII/U. THE 50% REDUCTION TARGET IS
OF AIVIP7 IN 2025. We did see, nowever, that in AMP8	based on our 17/18 level of leakage which
2025 - 2030 the rate of saving leakage will triple. This	was 14.6 IVII/d. Therefore our plan will
can only be good. In the Appendix P, issue 4, the saving	ensure our end leakage point is 7.3 Ml/d.
of 50% leakage is tabulated on Table NTST 4 as 6.25 Ml	

nor day. Dean this many that look and is summantly twice	The Equivergence A at the random state the EO0/
per day. Does this mean that leakage is currently twice	Ine Environment Act targets state the 50%
that at 12.5 will per day? This is an obvious place to	Leweyer we have listened to our
secure greater savings but we do fully realise that this is	However, we have listened to our
pretty difficult for the water Company to do quickly.	customer views on leakage and are keen
Saving water would also save energy. It must be	to accelerate this as much as possible to
wasteful now. We did note that in the deep drought	help with the short and mid term water
(with clay shrinkage) that there was an increase in your	resources challenges in the area, and
Company leakage rates in the drier weather. All this	therefore our revise draft plan looks to
strongly indicates to us that it does represent decades of	achieve this target by 2040. Our leakage
underinvestment in infrastructure. We would like to	levels are already lower than average
know who should be held to account for this? Can we	across the industry but we absolutely
not urge someone to accelerate the work? We note that	recognise the need to do more, and our
the volume seemingly lost to leakage is only a little short	commitment to achieve the 50% reduction
of the gain in volume from the 2027 transfer from	by 2040 is sector leading.
Grafham!	
Increasing Household Water Saving This is an area that	As part of our optimisation work for our
has been well researched locally and nationally.	demand management options, we did
Evidence from Waterwise UK	assess the option to deliver 90 l/p/d by
(https://www.waterwise.org.uk/save-water/) suggests	2050. We found there was no route to
that quite substantial savings can be made. 140 litres	achieving this unless the government
per head per day was not unusual in the past. Any	introduce water labelling with minimum
household saving water can quickly reduce it to < 120	standards. However, at this stage they
litres, with more effort < 80 litres per head per day is	have said they are looking to progress
obtainable easily with some grey water use. Could not	without the minimum standards at this
the per capita consumption (PCC) ambition of 110 litres	stage – in that circumstance we cannot
per person per day by 2050 not be brought forward to	achieve 90 l/p/d by 2050. Even with the
an earlier date? May we emphasise that this is a social	minimum standards, the cost for this work
ambition for a society more than a company	was estimated to be over f100m – this
responsibility. Local Authorities are already frustrated by	works out to be over £11m per MI saved
not being able to require higher standards of water	which is significantly higher than the
saving in the built environment. Are you beloing them in	average unit rate and therefore cannot be
that will to change the status quo? May we support you	deemed to be a best value approach
in that ambition? This is a classic example of how the	We have been working with local planning
Company poods popular public support. Can you	authorities regarding the huilding
company needs popular public support. Call you	standards and fully support the lower
(officiency caving) labelling of white goods and other	lovels, and have raised this in discussions
(enclency saving) labelling of white goods and other	levels, and have raised this in discussions
appliances?	with Defra. we also responded to the
	Government consultation on water
	labelling urging them to accelerate the
	scheme and to include minimum
	standards in order to maximise the
	potential benefits of the initiative.
Incentivising Water Recycling Cam Valley forum fully	In 2017 the market for non-householders
supports all your water recycling/reuse options. The	opened up and as such we no longer own
water industry should put its energy behind all such	the relationship with commercial
modifications to our local building regulations. Local	properties, instead this is managed
Authorities need to demand the facility to better	through retailers. As such, we currently

influence local planning laws. Retrospective fitting of	need to ensure that we do not spend
total household systems systems is expensive, but it is	money gained from household bills on
obvious for example that water butts are an immediate	non-household activities, as we are not
saving. Their underuse is a product of water being so	funded separately for this work. However,
much cheaper than the investment cost of rain water	we feel that by working with retailers, we
storage. In your WRMP we did note your positive	can deliver some significant savings in
engagement with grey water recycling on new buildings.	non-household consumption.
Cambridge has the Eddington Estate which was	However, there is significant non-
designed with such good design inherent to the whole.	household growth planned in the
One of the worries about large scale development of	Cambridge region and we have updated
industry in the Cam Valley is the demand for water for	our forecasts for the revised draft WRMP
industry. We see your ambition to reduce such non-	based on the latest employment figures as
household water use by only 9% between 2024 and	well as planning information. Demand in
2037 is highly unambitious. Present Chalk aquifer usage	2038 is 55% higher than in 2020, which is
by industry is in much demand. For the majority of	the baseline year for the reduction targets.
businesses more in-house re-use and recycling would	In order to deliver a 9% reduction, all of
make good sense.	this new NHH growth would have to be
	water neutral as well as reducing
	consumption across existing properties.
	Our work has shown this is not possible.
	As such we are proposing to deliver a 9%
	reduction from the 2038 forecasted
	position and a 15% reduction from the
	2050 forecasted position
	We are working closely with Defra and the
	new Water Scarcity Working Group that
	has been convened by the Department for
	Lowelling Up, Housing and Communities
	Through this we are all working
	collaboratively to understand the
	conaboratively to understand the
	opportunities to ensure non-nousenoid
	growth is sustainable.
wetering Metering is an obvious gain as metered	As part of our optimisation, we have
properties use less per capita than unmetered	assessed delivering the universal metering
properties. This has been well researched for your draft	programme by 2030. However, there are
WRMP. In an inequitable society (and Cambridge City is	several reasons that we do not believe this
a national exemplar of one such!) one would not want	is a viable options:
excessive water prices to fall on heads of the less well	We have developed our plan with
off. However, at present OfWA1 pricing is so low that it	our supply chain to ensure that it
does not encourage water saving and has the side-effect	is deliverable – accelerating the
here of wasting water and harming the environment.	proposed programme would
We need a water company and citizenry to demand	create supply chain issues with
equity in pricing and the best steps in that direction	resources to deliver and meter
would be smart metering for all. Again, it is a case of	availability.
upping the ambition. If you feel it can be done by 2035	 All companies have ambitious
why not sooner - by 2030. Cam Valley Forum is certainly	metering programmes. This is
	putting a strain on meter stock,

calling for universal metering and the faster the better. Can you as a company be driven to do the right thing?	 which is exacerbated by current world affairs. Several companies have undertaken large scale metering programmes between 2020 and 2025 and found delivery challenging – we have liaised with these companies to understand the lessons learned and ensure we build a plan that reflects these.
	In Cambridge we already have a higher level of metering penetration than the industry average at 74%, and we acknowledge that 100% will not be fully achievable due to share supplies and other complexities, but believe our plan is ambitious and deliverable.
That Cambridge Water is realising that a total dependency on Chalk sourcing is no longer tenable is a big step forward. We commend Anglian Water in their support of you. We gather that the present incipient licence caps will reduce your current abstraction by around 26 Ml/d. We heartily welcome this change. We are pleased to see the now displayed (non-Chalk) supply options. We are therefore of course very supportive of the Grafham Transfer and in the longer term of the Fen Reservoir. Any climb down from the present 97% Chalk stream aquifer sourcing is a gain.	Thank you for your comments.
We recognise fully that these saving are all non-Chalk sources. This we commend. (The actual numbers here in our table [Page 10 Table 1]) may be overstated. However, we note that the timescale for achieving this change is still totally unambitious and actually barely in the time frame of the plan. How can we harness more support for saving streams and rivers much more quickly? The volumes envisaged here will not be quickly met and if the capacity it releases goes in to unconstrained development it will not bring any tangible benefit at all.	In order to make the abstractions reductions required, we are dependent on the development of new supply sources. The Grafham Transfer will only be available to us when the Grand Union Canal resource option is in place which allows Affinity Water to reduce its water transfer from Grafham Water. The Grand Union canal option is also progressing through RAPID to ensure delivery is accelerated. Fens Reservoir is also progressing through the RAPID process and 2036 is currently the earliest date we believe the scheme can be delivered. However in the announcement from Department for Levelling Up, Housing and Communities, a view to identify how the Fens Reservoir

	could be accelerated is part of the remit of the new Water Scarcity group. This proposal it outlined here <u>Long-term plan</u> <u>for housing - GOV.UK (www.gov.uk)</u> . We support this and will be working closely with the team.
Your list of waterbodies:- Cherry Hinton Brook, Hoffers Brook, Mill River, River Granta, Mel, Shep and Vicar's Brook could all do with help. Augmentation has done much for some but whole rivers have effectively died, without help. One of those you have omitted, the Great Wilbraham River is pathetic today. Richard Townley, of the Wilbraham River Protection Society, has consulted with the EA they attest that the water table has gone down by three metres at the Temple Springs at Great Wilbraham and at Shardelowes Well, also, in Fulbourn. To overcome this deficit the Society were told that it would require a reduction of almost 70% in the current rate of abstraction to flow normally again. In the Cam Valley Forum we have heard similar talk from the EA of 60% minimal reduction on current abstraction rates to achieve near normal flows. The National Chalk Streams Restoration Strategy sees a similar picture (see graph for the Ver [Page 5 Figure 1]). There is now a national alliance to improve things and it is going to happen.	We have extensive plans for chalk stream restoration between 2025 and 2035 through our Water Industry National Environment Programme (WINEP) and we include the details of this in section 11.10 of our revised draft WRMP. Reductions to abstraction can only be implemented if replacement resources can be found and brought into supply – our WRMP24 proposes 2 significant schemes which are being developed to introduce replacement water as soon as they are able to. In the meantime, our demand management will ensure no significant increase in demand over the plan period.
We note that for WINEP the Granta Catchment has been selected for special investigation and targeted improvement . So far some useful study has been made in increasing the percolation of catchment flow into the aquifer. Cam Valley Forum has assisted with River monitoring which shows Phosphate pollution. One great need that the Cambridge area has is for a demonstration of an exemplar thriving Chalk Stream. Something to show our children and to be proud of. Cam Valley Forum would strongly argue that without such a demonstration the environmental gains from saving them Chalk Streams will very soon be lost to us all. May we here propose, here, that for every abstraction licence capping reduction you are required to make it should be allocated to that one Granta catchment until you have greatly increased that Chalk stream's base flow. Such an action would be a welcome experiment and would validate your investment in this changed water resource attitude.	Our licence caps are prescribed by the Environment Agency based on each individual source. We already have hands off flows on the abstraction that impact flows in the Granta to protect the minimum flows required by the ecology. These are activated every year. We have selected the Granta as our flagship Chalks Streams Restoration Project (CSRG) promoted by the CaBa chalk streams strategy and are already actively working to introduce restoration measures including those identified in the study alluded to. We have applied for innovation funding and fast tracked spend but these have to date been rejected, so the majority of restoration work will be part of our AMP8-9 WINEP implementation.

3.4 Cambridge City Council and South Cambridgeshire District Council

Consultation Comment	Response
It is essential for the Cambridge Water WRMP to	For the revised draft WRMP we have
provide certainty that enough water will be supplied for	updated our household and non-
existing homes and workplaces (and those approved	household demand forecasts and have
under the current Local Plans) in this nationally	worked closely with Greater Cambridge
important economic and water-stressed area, whilst	Shared Planning in order to do this.
ensuring that this water comes from sources that do not	The revised draft WRMP shows that
have a detrimental environmental impact. The	demand management activities offset the
challenge lies in planning for water supplies for the	increases in demand associated with the
future developments to be set out in the Greater	ambitious growth planned for our region.
Cambridge Local Plan covering the period up to 2041,	In order to meet the environmental needs
given that any proposals within the WRMP should also	of the region through the abstraction
provide for real improvements to the water	reductions we need to deliver new supply
environment as soon as possible.	side schemes such as the Grafham
	Transfer and Fens Reservoir as soon as
	they are available.
The Councils are not the responsible authorities for	Throughout the production of the revised
water resources planning and would look to the	draft WRMP we have worked closely with
expertise of the Environment Agency to assess whether	Greater Cambridge Shared Planning to
the measures proposed in the Cambridge Water draft	ensure that our forecasts are accurate and
WRMP will be effective in providing a sustainable water	to share progress against our developed of
supply. We nevertheless ask that Cambridge Water	the revised draft.
continues to work cooperatively with the Councils as the	In addition, we have help additional
WRMP is finalised. The Councils, as local planning	session joint with Defra and the
authorities, are already required to have regard in their	Environment Agency which have led to
decision making on planning applications to river basin	Cambridge Water producing a separate
management plan objectives, including the impact of	piece of work showing the impact of
abstraction to meet water supply needs, and therefore	various scenarios on our proposed plan
it is essential that we can have confidence in the	which is being used to feed into some of
approach set out by Cambridge Water in the WRMP.	the current planning challenges being
	observed in the region. We will continue
	to work with all stakeholders to ensure
	clarity around the plan and the necessary
	actions required in order to deliver a
	sustainable water supply for our
	customers and the environment.
The Councils urge Cambridge Water along with the	We are working closely with Greater
Environment Agency, DEFRA, DLUHC and OFWAT to	Cambridge Planning, the Environment
work effectively together and in a timely manner to	Agency and Defra to ensure that the
resolve the final wriver and to bring forward the	growth in the Campridge region is
necessary supply and demand measures as rapidly as	Sustainable. We are working with the new
deterioration, and that next apple is no environmental	water scarcity working Group that has
uerenoration, and that past ecological damage has an	been convened by the Department for
opportunity for repair. We are particularly concerned as,	Levening Up, Housing and Communities,

although the wet spring this year will potentially take	the Environment Agency, Ofwat, central
the region out of "Drought status", the extreme weather	and local government and innovators
fluctuations that we have seen recently are well in-line	across industries to accelerate plans to
with predictions for climate change scenarios	address water scarcity in the area. As part
(https://www.nature.com/articles/s41467-023-36499-	of this work we are exploring the role all
9). We would like to see the WRMP take a more pro-	sectors must play in ensuring the
active approach to the extreme variability in rainfall and	development is sustainable and the
weather that is likely to become increasingly normal,	options and opportunities we can explore
and will require a commitment to the precautionary	to achieve this. This proposal it outlined
approach.	here Long-term plan for housing - GOV.UK
. FL	(www.gov.uk)
	As part of the Water Resource Planning
	Guidelines issued by the Environment
	Agency, the WRMP24 must improve the
	level of drought resilience from a 1 in 200
	drought to a 1 in 500 drought. This means
	that there would be 0.2% change of
	citat there would be 0.2% change of
	extreme drought measure (e.g. standpipes
	In the street) being required in any year.
	Our plan delivers this standard upon
	commissioning of the Fens Reservoir and
	this will make our system and supplies
	more resilient to climate change as you
	reference.
It is also important to understand the cost of all the	We have included a new section in our
proposed measures and the impact this will have on	revised draft WRMP which outlines the
customer bills. Further education initiatives in water	impact on customer bills. This is section
usage are encouraged to inform people about the	12.3.
serious water stress in the region. Many people are very	We have shared the bill impact with
unaware, and don't understand the importance of	customers as part of our customer
conserving water.	engagement work.
Cambridge Water stated that, between the closure of	We have worked closely with Greater
the consultation (19th May) and the planned date for	Cambridge Shared Planning to update our
submission of the revised plan to Defra (25th Aug), they	household and non-household forecasts,
will:	and they have had full sight of these prior
	to submission of the draft WRMP.
• Update the baseline demand forecast based on the	The other elements will be provided in the
latest property and population forecasts.	revised draft WRMP, apart from the
 Review [their] demand management profiles to 	review of our drought triggers which
ensure alignment with the Environment Act interim	relates predominantly to our drought plan
targets	and is ongoing
 Provide more carbon data in the plane g, the 	
carbon impact of [their] preferred plan and [their]	
journey to net zero by 2030	
Indertake a review of Itheir] drought triggers	
 Include details and learnings from the 2022 	
drought.	

We have some concerns that the results of these	
activities will not apparently be made available before	
the revised WRMP is submitted to Defra, given that	
many of our concerns itemised below are related.	
Ahead of the publication of the Draft WRMP, the	Throughout consultation and the
Environment Agency has raised concerns as a consultee	development of the revised draft WRMP,
on planning applications (such as Darwin Green, an	we have worked closely with Greater
allocated site on the edge of Cambridge) requiring	Cambridge Shared Planning, developers in
further information on the basis that the proposed	the region, the Environment Agency and
development may, through additional demand for	Defra regarding these matters. We have
potable water use, increase abstraction and risk further	worked together to ensure our property.
deterioration to water bodies in the Greater Cambridge	nonulation and employment forecasts are
area. Their comments highlight that the FA will be	accurate. We have also produced a
reviewing the Draft WRMP24 to assess if the required	separate piece of work for the
changes to licences have been included and sufficient	Environment Agency to support the
water supplies are available for growth and the	current development challenges. This
anvironment. In their 2022 pre-consultation response	work assesses our plan against a wider
(in Appendix A accompanying the dWRMP) the EA	range of scenarios which in turn will
stated "the reductions (to abstraction) required are	provide the Environment Agency with
expected to be significant and may cause large	more clarity on the water resource
discrepancies between the forecast and actual baseline	socurity and resilience
CDR (supply domand halanse). We support the company	The scale of proposed growth in
sob (supply definition balance). We expect the company	Combridge is significant and we need to
to demonstrate in its plan that its abstraction is	Cambridge is significant and we need to
Sustainable now and long term. As part of the Chaik	also make significant reductions from our
Stream Restoration Strategy, we are calling an end to	current abstraction in order to retore and
unsustainable abstraction and expect your plan to	protect the chaik streams in the area. Our
protect and improve the environment, considering both	revised draft WRMP shows that our
current and future challenges."	demand management programme will
	offset that increase in demand as a result
The Councils therefore consider it an urgent priority that	of the growth, and that new supply side
Cambridge Water and the Environment Agency work	options are required to enable the
together (with other agencies where necessary) in order	abstraction reductions required in both
that there is confidence in the WRMP and to avoid	the short and the long term.
delays to decisions on planning applications on sites	We are working closely with Greater
allocated in current adopted Local Plans. During the EA	Cambridge Planning, the Environment
Drought Update public webinar of 20 th April, the	Agency and Defra to ensure that the
Environment Agency verbally expressed some concern	growth in the Cambridge region is
about the abstraction levels in the proposed plan and	sustainable. We are working with the new
we would like reassurance that any concerns are being	Water Scarcity Working Group that has
addressed.	been convened by the Department for
	Levelling Up, Housing and Communities,
	the Environment Agency, Ofwat, central
	and local government and innovators
	across industries to accelerate plans to
	address water scarcity in the area. As part

of this work we are exploring the role all

	sectors must play in ensuring the development is sustainable and the options and opportunities we can explore to achieve this. This proposal it outlined here <u>Long-term plan for housing - GOV.UK</u> (www.gov.uk)
Page 4 Para 1. If the plan-making process is not to be significantly delayed, it is critical that Cambridge Water, working with bodies such as Water Resources East, the Environment Agency, DEFRA and the Councils identify and agree solutions to deliver a sustainable water supply that also protects and enhances the environment.	As stated above, we are working closely with Greater Cambridge Planning, the Environment Agency and Defra to ensure that the growth in the Cambridge region is sustainable. We are working with the new Water Scarcity Working Group that has been convened by the Department for Levelling Up, Housing and Communities, the Environment Agency, Ofwat, central and local government and innovators across industries, including Water Resources East, to accelerate plans to address water scarcity in the area. As part of this work we are exploring the role all sectors must play in ensuring the development is sustainable and the options and opportunities we can explore to achieve this. This proposal it outlined here Long-term plan for housing - GOV.UK (www.gov.uk)
Based upon the technical appendices to the draft WRMP, officers believe that the dwellings trajectory that has informed the draft WRMP is broadly in line with the housing development trajectory within the existing adopted Local Plans and the development set out in the Greater Cambridge Local Plan First Proposals (2021), along with growth identified in the published Huntingdonshire housing trajectory for the area within the Cambridge Water Catchment. Following our publication of updated higher needs figures, the revised needs, and their impact upon water demand must be understood urgently.	During the development of the revised draft WRMP we have worked closely with Greater Cambridge Shared Planning to ensure that our household and non- household demand forecasts are updated and accurate reflect the current plan position.
The information relating to non-household growth accounted for in the draft WRMP is provided in the technical report found at Appendix C2 accompanying the draft WRMP. This indicates that it has taken account of economic trends in different sectors. The Councils however require further information to confirm that the levels of employment growth being used in forecasts are consistent with the evidence being used for the Local Plan, including for the updated needs, in order to give	During the development of the revised draft WRMP we have worked closely with Greater Cambridge Shared Planning on the non-household growth forecast and have agreed a scenario that relates to employment forecasts that aligns most closely with the non-household forecasts in the plan. We have provided updated
confidence around future decision making. It is important to understand the needs of different sectors	information on this scenario in Appendix
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such as laboratories, which can be water intensive users,	
and which are particular to Greater Cambridge.	
The Councils understand that the underlying forecasts for household and non-household growth are already being revisited by Cambridge Water as part of the development of the final WRMP. Therefore, it is crucial that Cambridge Water collaborate with the Councils so that the relevant data and evidence base that underpins the development of the new Local Plan can be used to inform this process.	During the development of the revised draft WRMP we have worked closely with Greater Cambridge Shared Planning to ensure that our household and non- household demand forecasts are updated and accurate reflect the current plan position.
 Page 4 Para 5. The effectiveness of these measures will need to be continually monitored in order to ensure that they are providing the predicted savings. The Councils question the timetable for universal smart metering by 2035, as the neighbouring water company Anglian Water aim to achieve this by 2030. The Councils firmly believe that this target should be brought forward to at least 2030. There are several ways in which the 	We deliver an annual review of our progress against each WRMP to the Environment Agency. In this we outline our performance against key elements such as demand management and includes any improvements we are planning to make should we see any areas off track.
installation of smart meters can be accelerated, and other water companies (e.g. Severn Trent) have been tackling this far more effectively. The Councils are aware that there have been occasions where single meters have been installed for groups of properties such as flats. The Councils have also taken steps, through conditions in planning consents sought, to ensure that individual dwellings are fitted with the means to monitor and measure their own water consumption. The water company itself should be taking a more active role to ensure that individual properties are metered to deliver the most effective water management.	 Cambridge Water already has a high metering penetration of 74% which is significantly higher than that of Severn Trent Water. As part of our optimisation, we have assessed delivering the universal metering programme by 2030. However, there are several reasons that we do not believe this is a viable option: We have developed our plan with our supply chain to ensure that it is deliverable – accelerating the proposed programme would create supply chain issues with resources to deliver and meter availability. All companies have ambitious metering programmes. This is putting a strain on meter stock, which is exacerbated by current world affairs. Several companies have undertaken large scale metering programmes between 2020 and 2025 and found delivery challenging – we have liaised with

	these companies to understand the lessons learned and ensure we build a plan that reflects these. Our customer engagement work for the WRMP has also shown that customers are concerned about the impact compulsory metering will have on their bills, particularly in the current economic climate or for customers who have high water usage for medical needs. As such,
	with customers to ensure we identify any concerns and can support customers
Page 5 Para 2. The Councils are also supportive of the use of site-scale rainwater harvesting and greywater reuse as set out in the draft WRMP in section 9.5.4, under other options. The largest savings would be at a site-scale, although smaller schemes should also be encouraged as a way for all new developments to reduce water use.	Thank you for your comments.
Page 5 Para 3. Cambridge, as a centre of excellence for sustainability and the environment, could be a leader in demonstrating how a target of 80 l/p/d can be achieved and we would like the WRMP to reflect this larger ambition. We would therefore welcome assistance from Cambridge Water in lobbying Government to allow for the establishment of more stringent water efficiency policies and in providing evidence to support our aim and show that this is achievable. Southern Water, for example, is working with their customers to reduce personal average daily use to 120 litres by 2025 and 100 litres by 2040.	As part of our optimisation work for our demand management options, we did assess the option to deliver 90 l/p/d by 2050. We found there was no route to achieving this unless the government introduce water labelling with minimum standards. However, at this stage they have said they are looking to progress without the minimum standards at this stage – in that circumstance we cannot achieve 90 l/p/d by 2050. Even with the minimum standards, the cost for this work was estimated to be over £100m – this works out to be over £11m per MI saved which is significantly higher than the average unit rate and therefore cannot be deemed to be a best value approach.
	ambitious building standards and have engaged with Developers in the region, as well as Defra, to promote this and encourage options such as greywater reuse and rainwater harvesting schemes, as delivered in our ground-breaking Eddington site. We have a developer

We are also proposing to include in our Greater	incentive mechanism which waives connection charges if properties are built to water efficient standards, and we're looking to build on this scheme as part of our business plan submission in October 2023. We have a developer incentive mechanism
Cambridge Local Plan a policy that would require non- household development to achieve full credits for category Wat 01 of BREEAM unless demonstrated impracticable. Again, measures such as rainwater harvesting and greywater recycling will be important to achieve these levels for non household uses, particularly where developments are water intensive uses, for example laboratory uses. Given the known challenges with water supply impacting our area, we would welcome any assistance Cambridge Water could offer to support this policy, which will also be of benefit to the demand management proposals in the WRMP.	which waives connection charges if properties are built to water efficient standards, and we're looking to build on this scheme as part of our business plan submission in October 2023. We would be very supportive of a policy that delivers greater water efficiency and are keen to work with you on this topic.
Even if new development is extremely water efficient, it will still lead to an increase in water required. In order to reduce overall demand retrofitting existing buildings to reduce water use will be essential and is urgently required. The Councils would welcome further exploration of how this could be achieved, either on a site/campus or an area wide basis reflecting on best practice elsewhere with officers from Cambridge Water and the Environment Agency. We are aware that there are many options available, from replacing inefficient fittings with new water-saving alternatives to installing water-butts and other water collection devices. The water company should also introduce far more pro- active measures to encourage the public to adopt water- saving behaviour; the efforts made during the 2022 drought were quite clearly inadequate and a critical review of this failure is needed to identify a better approach.	As stated above, we are working closely with Greater Cambridge Planning, the Environment Agency and Defra to ensure that the growth in the Cambridge region is sustainable. We are working with the new Water Scarcity Working Group that has been convened by the Department for Levelling Up, Housing and Communities, the Environment Agency, Ofwat, central and local government and innovators across industries, including Water Resources East, to accelerate plans to address water scarcity in the area. As part of this work we are exploring the role all sectors must play in ensuring the development is sustainable and the options and opportunities we can explore to achieve this. This proposal it outlined here Long-term plan for housing - GOV.UK (www.gov.uk)
The Councils are supportive of the proposed Government changes to the labelling of white goods and household appliances to show their water efficiency, which is referred to in the WRMP. This should also include the requirement of water usage controls on electric power and rain showers. Given that the national legislation planned will take time to have an effect (households will not automatically replace their existing	In our revised draft WRMP we have taken a more cautious approach to the benefits we believe water labelling will bring. The Government have stated this will be introduced in 2025 but we believe it will take time before the benefits are recognised. We have taken the low

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appliances), the Councils would urge Cambridge Water to lobby the Government to introduce this as soon as possible.	scenario of proposed savings and we have delayed the start of the benefits to 2030. We also responded to the Government consultation on water labelling urging them to accelerate the scheme and to include minimum standards in order to maximise the potential benefits of the initiative.
Page 6 Para 3. The draft WRMP states that following discussion with Anglian Water, both companies have proposed the acceleration of the work, as part of the Defra Accelerated Scheme. If approved this would enable the water transfer to be available in about 2027, rather than 2031. The Councils firmly support the acceleration of this programme, due to its potential in the short term to enable the management of ground water abstraction required to prevent deterioration to the water environment. We urge the water companies, the Environment Agency and DEFRA to complete exploration of the technicalities of delivery of this scheme as soon as possible.	As part of the development of the revised draft WRMP, Anglian Water have updated their modelling and following some feedback from the Environment Agency they are no longer able to support this original transfer of water from Grafham. We have worked with Anglian Water and Affinity Water to identify an alternative option. As a result, Affinity Water are now proposing to build a larger version of their strategic resource option utilising the Grand Union Canal bringing water down from the Midlands. As a result they are able to reduce the quantity of water they current transfer from Grafham Water and
The draft WRMP states that the transfer is time-limited, likely for a 6 year duration. However, once the transfer is operational it is essential that it continues to supply water in the period until the Fens Reservoir is operational (rather than limited to a specific number of years) to prevent environmental impact and the Councils would like this to be clear in the WRMP.	therefore there will be water available for a transfer to Cambridge Water. In addition, this allows a larger transfer of 25 MI/d which we now have included in our revised draft WRMP, as have Anglian Water and Affinity Water. We are therefore dependant upon the Grand Union Canal option being constructed, which is also going through the RAPID process. The current expectation is the water will be available for Cambridge Water in 2032 and we will undertake all of the work required to enable the transfer between 2025 and 2030 to ensure we are ready for this water as soon as it becomes available. This water will be available until 2040 and therefore will continue to provide a supply of water to Cambridge Water until Fens Reservoir is available.
regulatory and consenting processes, the Councils therefore support the prioritisation of this essential new infrastructure [Fens Reservoir] so that the	Thank you for your comments.

environmental benefits from reduced abstraction can be realised as soon as possible.	
At section 11.3.4, Cambridge Water asks for views on the application of drought measures in the plan in lieu of Regulation 19 exemptions to defer the reductions in licence caps, where there would remain a risk to deterioration of waterbodies. It is unclear from the plan what this would mean in practice and how frequent the use of Temporary Use Bans (TUBs) for domestic properties and non-essential use bans (NEUBs) for commercial activities would be. There is also no detail on how long these restrictions would last, and whether they would no longer be needed once other sources of supply became operational and the plan should be clearer and more specific about this.	Our triggers for initiating TUBs are outlined in our drought plan which was published following review and permission from the Environment Agency in 2022. As all of our abstraction is groundwater, these triggers relate to the level of recharge we see over the winter period and therefore the water availability in the aquifer in the coming summer. In 2022 we had a wet winter that saw the aquifers recharged and therefore the TUBs trigger was not reached. However, through extensive discussions with stakeholders during and after the drought of 2022, we recognise that these
measures, such as TUBs, to stop non-essential use and strongly object to deferring the reductions to abstraction licences and continuing to abstract at levels that would cause damage to the chalk streams and the wider environment. In this way everyone is playing their part in using water wisely. A step change in responsible water use through education and the appeal for restraint communications to the public must be delivered, and we believe that the majority of the public in Greater Cambridge will understand the need for this approach.	drought triggers need reviewing. As such we have committed to a review of these triggers which is now underway and have committed to working with Natural England and the Environment Agency as we progress with this work. Through our discussions with the Cam Valley Forum we have also committed to sharing the outputs of this work.
The Councils would urge the water companies to use these powers when they are needed to protect the environment in a very timely manner, and introduce them before the negative impacts of a drought period take hold. We would like to understand why such powers were not used at the peak of the heat wave in 2022.	
The draft WRMP includes an environmental destination to improve waterbodies by 2040 based on the Business as Usual Scenario (BAU+). This is consistent with the draft WRE Regional Plan, but the Regional Plan makes it clear that WRE's preferred option is the 'Enhance' level even though it proposes using this only from the mid- 2030s and subject to further investigations being completed. In line with comments we made to WRE on the Regional Plan, the Councils believe strongly that given the urgency of the situation and the environmental damage that has already occurred, the	The environment destination work looks at abstraction reductions required to provide protection to the watercourses and environment with regards to climate change. As all of Cambridge Water's abstraction is currently from chalk aquifers, all abstraction reductions we will undertake under any of the scenarios, including BAU+, will directly benefit chalk streams. In our revised draft plan we look at the enhanced scenario as a an adaptive

WRMP plan must seek to restore the status of our	pathway and show the impact this would
watercourse and we are therefore supportive of the	have on our plan and alternative options
'enhance' environmental destination as a key priority.	we might need to use in order to enable
Given that Cambridge is celebrated as a world centre for	this. This is shown in chapter 11.5.
environmental research and studies, with extensive	
expertise among its residents, we urge Cambridge	Our chalk stream restoration work forms
Water to reflect this in its plan and provide a model for	part of our Water Industry National
other regions in the country. Table 16 of the draft	Environment Programme (WINEP). This is
WRMP shows that only the 'enhance' destination	our programme of environmental
includes enhanced protection for our precious chalk	improvement, where the WRMP focuses
streams, sensitive headwaters and SSSIs. We note the	on water resource supply and demand. For
challenges associated with the investment required, but	the revised draft plan we have added
we would nevertheless strongly urge Cambridge Water	more detail of our WINEP programme, and
to commit to the 'enhance' environmental destination	more specifically, our chalk stream river
in the WRMP as BAU+ does not provide adequate	restoration programme and how it links
protection.	into the National Chalk Stream Restoration
	Strategy.
In section 6.10.1 of the draft WRMP it is recognised that	
further work will be carried out in the next Asset	
Management Period (AMP) 8 (2025-2030) and that	
flagship chalk stream river restoration projects will	
commence during this period. These enhancements are	
to deliver hydromorphological benefits to the chalk	
streams to improve and enhance them in the short	
term, before flows are returned to them in the future.	
The measures proposed would need to be subject to the	
appropriate approvals and as a form of mitigation, they	
are welcomed, but the return of flow to the chalk	
streams will only be made once the new major sources	
of supply take effect. Therefore the Councils would	
again stress the importance of the water transfer and	
Fens Reservoir in bringing about these improvements	
and that they are implemented as soon as possible.	
The Councils support schemes to improve the chalk	We would welcome the opportunity to
streams and water courses across the area, subject to	work with you to explore these
the appropriate approvals. The Councils have already	opportunities.
secured funding from the Cambridgeshire and	
Peterborough Combined Authority and are starting to	
carry out partnership projects which make local chalk	
streams and the species they support more resilient to	
current low flow scenarios. Both Councils are committed	
to doubling nature in Greater Cambridge, and we would	
urge a coordinated approach to actions including with	
other environmental groups to secure resources and	
realise the greatest benefits. The Councils would also	
like to work with Cambridge Water to explore	
opportunities for water source enhancement through	

water storage / infiltration to the aquifer, including what	
could be achieved through the planning process.	

3.5 Cambridgeshire County Council

Consultation Comment	Response
The target meets the National Infrastructure Commission proposals in their 2018 'Preparing for a Drier Future- England's Water Infrastructure Needs' report. Water companies committed to this reduction in a letter from Water UK to the Secretary of State in October 2018. The 50% was based on calculations and analysis using input from Infrastructure Transitions Research Consortium and Regulatory Economics Ltd. Whilst we recognise that this is a national target, we do not feel it is ambitious enough, and the 50% reduction in leakage should have a much more urgent delivery date than 2050.	As part of the development of our revised draft WRMP we have taken into account your view and similar views from customers and other stakeholders. As such, we are proposing to accelerate our leakage reductions in the revised draft WRMP and will achieve the 50% leakage reduction target by 2040.
 Q – Do you support our target to reduce household consumption to 110 litres per person per day by 2050? Yes, however we believe this cannot necessarily be achieved through smart metering and educational work alone. Investment will be needed to create more water efficient homes and businesses, with the option of retrofitting to be explored where appropriate 	We are working closely with Greater Cambridge Planning, the Environment Agency and Defra to ensure that the growth in the Cambridge region is sustainable. We are working with the new Water Scarcity Working Group that has been convened by the Department for Levelling Up, Housing and Communities, the Environment Agency, Ofwat, central and local government and innovators across industries to accelerate plans to address water scarcity in the area. As part of this work we are exploring the role all sectors must play in ensuring the development is sustainable and the options and opportunities we can explore to achieve this. This proposal it outlined here Long-term plan for housing - GOV.UK (www.gov.uk).
Whilst we recognise that the Cambridge Region is water stressed, we would wish to see full evidence of the need	Following the classification as serious water stressed, companies are able to
for compulsory metering and a full Equality Impact	explore compulsory metering provided
Assessment to demonstrate that any adverse impacts on	they have customer support. Through our
any groups can be managed appropriately. In addition to	extensive customer engagement work that we have undertaken when developing the

compulsory metering, we wish to see further commitment of measures Cambridge Water will undertake around leakage reduction and any compulsory metering should be preceded by the education of customers if it is expected they will reduce their consumption by 30 litres per person per day.	 plan, we have shown that the majority of customer do support this approach, as outlined in section 4 of our draft plan. They, as you have, rightly raised concerns around affordability and how we must ensure families are not adversely penalised. As such, we have included further detail in our revised draft plan outlining how we will ensure any adverse impacts can be managed with our customers – this can be found in section 11.1.2.2 and are outlined below: We aim to have a maximum of 3% of our customers in water poverty by 2035. We will expand our existing Assure programme to support nearly twice as many customers in AMP8 as we are supporting in AMP7. We will provide a 2 year grace period for meter rollout. Customers will have 2 years from the date of meter installation before we switch to metered billing so we can provide them with regular consumption and proposed bill data. This will enable them to understand the impacts and plan for the potential changes were required.
Q - Do you support our environmental ambition to reduce abstraction from existing sources to a lower level (known as 'Business as Usual Plus') by 2050? Yes. We would welcome the opportunity to see how multiple benefit solutions may be incorporated to balance water abstraction, flood risk, irrigation and biodiversity enhancement. A strategic priority for	Thank you for your comments. We are happy to work together to achieve our mutual goals.
Cambridgeshire County Council to be net zero by 2045 which includes working with partners to deliver water conservation approaches and manage water scarcity.	
We note the golden thread to take action on the environment sooner rather than later and believe there may be 'no/low regrets' work that can be undertaken	We do have a team of catchment advisors in the region who work with farmers. We have been expanding our work with

before 2029 to help improve the resilience of the	farmers and landowners in our catchment
environment or support local farmers through	to help reduce fertiliser and pesticide use
catchment advisors. As already outlined above, a	and run-off, as well as improve drainage
strategic priority for Cambridgeshire County Council to	and chemical storage, all to assist with
be net zero by 2045 which includes working with	water quality. We will continue to expand
partners to deliver water conservation approaches and	this over the coming years to deliver
manage water scarcity. We are keen to work with	further benefits. We are happy to discuss
Cambridge Water on schemes such as Natural Flood	opportunities to work together with
Management and Catchment Based Approaches which	Cambridgeshire County Council to help
we believe can be delivered relatively quickly.	achieve these aims.

3.6 Consumer Council for Water

Consultation Comment	Response
It is good to see the Non-household challenge addressed	Our draft WRMP planned to achieve the
and ambition outlined for greater focus on	9% non-household consumption reduction
communication with NHH customers following a dip in	as outlined in the Environment Act targets
'education' since the market opened. We wish to see all	 at the time, these targets were only
wholesalers make demand management an integral part	proposed and not confirmed. We planned
of any strategy to address risks to future water supplies	to achieve this through fitting enhanced
and meet Defra's target to reduce water demand.	meter technology to all our non-
	household customers between 2025 and
We would like to see greater ambition on how the	2035.
wholesale company should work with business	Following the confirmation of this target in
customers and retailers in the short and long term to	the Environment Act in December 2022,
reduce demand and increase water efficiency.	we have further enhanced our proposal in
	this area to ensure we are working closely
The non-household retail market has so far failed to	with retailers to drive behavioural changes
deliver a market for water efficiency assistance for	and efficiencies in the non-household
business customers in England to the extent that was	population, as well as identify and target
envisioned when the non-household retail market	customer supply side leakage within this
opened for all businesses in 2017.	population. As a result, our plan will now
	meet the 15% reduction target by 2050.
While the introduction of a new business demand	
Performance Commitment by Ofwat in the PR24 final	These additional activities are described in
methodology means there will be greater transparency	section 11.1.4 and include:
and an opportunity to set challenging targets, this is not	 Water efficiency audits and
	reviews

a regulatory measure that can deliver demand reduction	- Data reviews of continuous use to
by itself	identify possible wastage and
by itself.	
Wholesale companies' plans pood to be clearer on how	We have been part of a club opgagement
they will manage business domand, especially in areas	preject with several other water
they will manage business demand, especially in areas	project with several other water
more at risk of water scarcity.	companies where we have been engaging
	with retailers to identify now we can best
We would like to see greater innovation and ambition in	work together to deliver these ambitions.
demand management, with the wholesale company	This includes looking at communication
showing how it will engage with customers and retailers	and incentivisation, and we will continue
on joined up strategies to help reduce demand.	to build on this throughout the rest of
	AMP7.
In discussing the roll out of universal metering (p10), the	In our draft WRMP we acknowledge the
plan did not address the concerns clearly mentioned in	concerns raised by our customers and
customer research (section 4 of main plan) and in	highlight that we were working through
particular the need to provide the re-assurance that	our plan to support customers as part of
support will be provided to the vulnerable, those	our PR24 process. We have undertaken
struggling with affordability and larger households	further customer research on the
during the transition to and after meter roll-out.	potential options and have agreed the
	following approach:
	- We aim to have a maximum of 3%
	of our customers in water poverty
	by 2035
	- We will expand our existing Assure
	programme to support nearly
	twice as many customers in AMP8
	as we are supporting in AMP7
	- We will provide a 2 year grace
	period for meter rollout.
	Customers will have 2 years from
	the date of meter installation
	before we switch to metered
	billing so we can provide them
	with regular consumption and
	nronosed hill data. This will enable
	them to understand the impacts
	and plan for the potential changes
	were required
Given the challenges other water companies have faced	As part of our PP24 customer
in implementing universal metering it would have been	As part of our FN24 customer
useful to see more detail in the plan on how South Staffs	the notential entions to support these
useful to see more detail in the plan of now South Stans	who need it throughout the universal
will use a benavioural science approach (or other similar	who need it throughout the universal
innovations) to persuade customers it is the right thing	rollout programme. In addition, we
to do. It will also be important to learn from the	Undertook multiple sessions with South
experience of other companies and to offer both	East water who have already rolled out
practical and financial support to customers where	universal metering. We have also taken on
	board the learnings of other companies

needed. CCW looks forward to discussing these plans with the company.	who have undertaken ambitious metering programmes in AMP7, such as Anglian Water and Thames Water. Through this we learned what worked well, what improvements they would recommend, and customer feedback and preferences throughout the journey. We have included this in our plan for support as detailed in the revised draft WRMP and will build further on this in our PR24 submission. We will continue to share these plans with CCW as we develop our PR24 business plan.
It is notable that the plan outlines the company's long- term ambition to achieve: - 50% reduction in leakage (from 2017/18 levels) by 2050 - 110 l/h/d household consumption by 2050 - 9% reduction in non-household consumption by 2037	At the time of submission of the draft WRMP in October 2022, the interim targets were not yet in place as they were published in December 2022. In our revised draft WRMP we have updated section 11.1 to show how our WRMP outcomes compare to the Environment
We would expect the final plan to make reference to the interim statutory demand targets outlined in DEFRA's Environmental Improvement Plan (EIP) to- -reduce household water use to 122 litres per person per day (I/p/d):	positions.
-reduce leakage by 37% (20% by 31 March 2027 and 30% by March 2032); and, -reduce non-household (for example, business) water use by 9% all by 31 March 2038. We would wish to see a glide path showing what level	
and when reductions in demand are expected to be delivered.	
The plan identifies the main challenges the water company faces, but with regard to climate change the emphasis appears to be on its impact on the environment (and thus the need to reduce existing groundwater supplies) rather than considering its impacts 'in the round'.	Our plan has looked at the impacts of climate change on two key elements of the plan: - Raw water availability (see section 6.6) - Customer demand i.e. how it may impact customer behaviour and water needs (see section 7.1.2)
	We also include a level of uncertainty associated with climate change in our headroom calculation, acknowledging that

	climate projections get more uncertain the further into the future they go.
The non-technical summary would benefit from infographics.	We will be updating our non-technical summary for the final plan and will look at how to include more infographics as part of that revision. We also share our customer facing documents with our online forum of customers, H2Online, for feedback and builds to make sure our communications are as user friendly and engaging as possible, and we'll ensure we do this again for this final version.
There is no easily accessible information regarding the likely bill impact of the Plan. Any price increase will be in addition to the bills impacts from other regulatory requirements and investment needs, and should be made clear. A single water affordability scheme is needed to make sure those most in need are protected from higher bills due to increasing environmental investment pressures.	We have included a section in the revised draft WRMP in section 12.3 that details the bill impact of the proposed programme. Overall affordability testing has been undertaken as part of our PR24 customer engagement programme.

3.7 Defra

Consultation Comment	Response
Recognising the significant benefits of smart metering	Our plan shows we will deliver universal
on usage of water including identification of leaks we	metering for all our household and non-
expect water companies to consider how to rapidly	household customers by 2035. All new
increase installation of meters for household and non-	installations will be smart.
household customers (even where they cannot charge	We are developing our support packages
by metered volume). We also expect companies to	for customers to ensure that transitions to
quickly move towards all new and replacement meters	metered bills is affordable. As part of this,
being 'smart', where this is the best value for customers	we will offer a two year transitioning
and the environment.	period where we can share meter data to
You will also be aware that smart meters can be	help customers identify potential savings
installed without the need to change billing procedures.	or enable them to prepare for the changes
	to their bills. We will also enhance our
	support packages from 2025 to support
	vulnerable customers.
	We were also successful in our bid as part
	of the Defra accelerated infrastructure
	development and we will be accelerating
	some of our programme into AMP8.

3.8 Environment Agency

The below section provides the overview recommendations and improvements identified within the Environment Agency feedback. The Environment Agency also provided a detailed evidence report where each of these recommendations and improvements were broken down into sub-actions. This detail has been included at the end of this document in Annex 1.

Consultation Comment	Response
Page 5 Section 3. We do not consider that	Information on emissions arising from our
Cambridge Water has complied with the Water	proposed options was included in the data tables,
Resources Management Plan (England) Direction	and we have now included section 11.2 in the
2022. It has not met the following directions.	main document to describe the emissions of each
In respect of greenhouse gas emissions –	option and how that contributes to our overall
(i) the emissions of greenhouse gases which are	greenhouse gas emissions.
likely to arise as a result of each measure which it	Additional references are included to further
has identified in accordance with	sources of supporting information.
section37A(3)(b), unless that information has	This now meets the requirements of the Direction
been reported and published elsewhere and the	in respect of greenhouse gas emissions.
water resources management plan states where	We have also included details on our net zero
that information is available;	plan and how our activities here play a part in
(ii) how those greenhouse gas emissions will	that plan.
contribute individually and collectively to its	
greenhouse gas emissions overall;	
(iii) any steps it intends to take to reduce those	
greenhouse gas emissions;	
(iv) how these steps will support the delivery of	
any net zero greenhouse gas emissions	
commitment made by it; and	
(v) how these steps will support delivery of the	
UK government's net zero greenhouse gas	
emissions targets and commitments.	
[Continued from above] Its estimate of the total	We have included a breakdown of this in the data
number of meters installed to record water	tables that will be submitted alongside the
supplied to domestic premises at the	revised draft WRMP.
commencement of the relevant planning period	Our metering strategy will focus on achieving
and including a breakdown of –	universal metering through the metering of the
(iii) the number of meters that are charged by	remaining c30,000 unmeasured Households with
reference to volume including –	a view to reach as close as effective 100%-meter
(aa) optant metering;	penetration by 2035. All new builds will continue
(bb) change of occupancy metering;	to be metered inline with current policies.
(cc) new build metering;	
(dd) compulsory metering; and	
(ee) selective metering	
[Continued from above] Its estimate of the total	We have included a breakdown of this in the data
number of domestic premises which will become	tables that will be submitted alongside the
	revised draft WRMP.

subject to domestic metering during the planning	
period and including a breakdown of –	
(iii) the number of domestic premises with	
meters that will be charged by reference to	
volume including –	
(aa) optant metering;	
(bb) change of occupancy metering;	
(cc) new build metering;	
(dd) compulsory metering; and	
(ee) selective metering	
Recommendation 1: Demonstrate the company	We have reviewed the options available to us
can meet its responsibility to provide secure	both locally and from the regional plan(s). As a
water supplies to customers, support growth	result we have revised one of the earliest options
and protect the environment by making	available, the temporary transfer from Anglian
significant improvement to its plan. The	Water. This could now provide a larger volume of
Environment Agency expects the company to	additional supply and has been modelled with our
make substantial improvements to the plan and	other feasible options to provide an updated
provide confidence that it can meet demand and	nlan. This will now however be delivered 2 years
support growth without posing a threat to the	later in 2032 and so will require an interim
environment. This includes developing	dispensation to some licence caps in 2030 which
alternative options to manage the risk to security	will be managed to reduce the risk of and impact
of supply and the environment if its preferred	to the environment which would be fully
plan cannot be delivered	mitigated
	initigated.
	Our preferred plan has been stress tested against
	Oui diciciicu diali ilas decli suces lesteu agallist
	supply and domand uncortainties to provide a
	supply and demand uncertainties to provide a
	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates
	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth
	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this local of growth to be
	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be
	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported.
Recommendation 2: Demonstrate that the risk	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge Water must demonstrate it has a credible plan to	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of deterioration, with all caps applied by 2032 when
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge Water must demonstrate it has a credible plan to manage the risk of deterioration in each water	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of deterioration, with all caps applied by 2032 when our earliest available supply option can be
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge Water must demonstrate it has a credible plan to manage the risk of deterioration in each water body affected by its abstractions.	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of deterioration, with all caps applied by 2032 when our earliest available supply option can be implemented to replace the available abstraction
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge Water must demonstrate it has a credible plan to manage the risk of deterioration in each water body affected by its abstractions.	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of deterioration, with all caps applied by 2032 when our earliest available supply option can be implemented to replace the available abstraction lost from licence caps to supply. These caps are
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge Water must demonstrate it has a credible plan to manage the risk of deterioration in each water body affected by its abstractions.	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of deterioration, with all caps applied by 2032 when our earliest available supply option can be implemented to replace the available abstraction lost from licence caps to supply. These caps are based on the recent actual period of abstraction
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge Water must demonstrate it has a credible plan to manage the risk of deterioration in each water body affected by its abstractions.	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of deterioration, with all caps applied by 2032 when our earliest available supply option can be implemented to replace the available abstraction lost from licence caps to supply. These caps are based on the recent actual period of abstraction provided by the EA.
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge Water must demonstrate it has a credible plan to manage the risk of deterioration in each water body affected by its abstractions.	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of deterioration, with all caps applied by 2032 when our earliest available supply option can be implemented to replace the available abstraction lost from licence caps to supply. These caps are based on the recent actual period of abstraction provided by the EA.
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge Water must demonstrate it has a credible plan to manage the risk of deterioration in each water body affected by its abstractions.	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of deterioration, with all caps applied by 2032 when our earliest available supply option can be implemented to replace the available abstraction lost from licence caps to supply. These caps are based on the recent actual period of abstraction provided by the EA.
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge Water must demonstrate it has a credible plan to manage the risk of deterioration in each water body affected by its abstractions.	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of deterioration, with all caps applied by 2032 when our earliest available supply option can be implemented to replace the available abstraction lost from licence caps to supply. These caps are based on the recent actual period of abstraction provided by the EA. We have also undertaken additional groundwater modelling work to explore a number of
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge Water must demonstrate it has a credible plan to manage the risk of deterioration in each water body affected by its abstractions.	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of deterioration, with all caps applied by 2032 when our earliest available supply option can be implemented to replace the available abstraction lost from licence caps to supply. These caps are based on the recent actual period of abstraction provided by the EA. We have also undertaken additional groundwater modelling work to explore a number of abstraction scenarios at the individual source
Recommendation 2: Demonstrate that the risk of deterioration in status of water bodies can be managed, including maintaining abstraction to historic limits at sensitive sites. Cambridge Water must demonstrate it has a credible plan to manage the risk of deterioration in each water body affected by its abstractions.	supply and demand uncertainties to provide a robust preferred plan. Our growth estimates have allowed for the emerging local plan growth aspirations, above the published local plan and therefore would allow this level of growth to be supported. Our preferred plan demonstrates that demand management will offset the expected growth in demand by 2030, in a dry year, and from 2030 we will apply most licence caps to manage the risk of deterioration, with all caps applied by 2032 when our earliest available supply option can be implemented to replace the available abstraction lost from licence caps to supply. These caps are based on the recent actual period of abstraction provided by the EA. We have also undertaken additional groundwater modelling work to explore a number of abstraction scenarios at the individual source level and the flow changes that may occur for

	impact on the risk of deterioration increasing or otherwise. We aim to ensure no decrease in WFD status for any waterbody identified at risk of deterioration in the Water Industry Environment Programme (WINEP).
Recommendation 3: Accelerate and develop preferred supply options to provide confidence	due to the nature of the sudden supply
they can be delivered and will be available to mitigate the risks to security of supply and the environment. This is particularly important for the proposed transfer from Anglian Water and the proposed Fens Reservoir strategic resource option (SRO).	reductions due to licence caps to prevent deterioration, are being selected in the preferred plan as soon as they are available. The 2 key schemes – Anglian transfer, and Fens Reservoir – have had the delivery programmes reviewed by the project teams and will be available as soon as available, in 2032 and 2036 respectively. Although both these options are in some part reliant on other companies and third party involvement, and/or include complex planning processes, we are confident that the project delivery teams have provided sufficient reassurance at this stage that these schemes are deliverable as presented
	in the WRMP, and this is demonstrated consistently in companies respective plans
deliverable alternative plan or pathway for if important supply and demand options are not delivered. The plan should include consideration of alternative supply options and strategic transfers from sources inside and outside of the region, so these are ready to be deployed as soon as they are required. This should include consideration of the size of the Lincolnshire reservoir option and if a larger reservoir can support increased transfers to Cambridge Water. Also, if desalination should be a preferred option. This is particularly important for alternatives to the Fens reservoir and transfer from Anglian Water should they not be deliverable.	outlined in our revised draft WRMP and this now includes an adaptive pathway The Fens reservoir is our preferred mid-long term strategic option, and this can be delivered sooner that the Lincs reservoir, with the required volumes to meet both the licence caps for no deterioration and the expected reductions for environmental destination, the latter subject to investigations to finalise. The Fens reservoir could also provide additional yield, if deemed required through the planning process. Current technology results in de-salination being less sustainable than the selected preferred options at the regional scale, and are only selected through the regional simulator in extreme futures, for example where abstraction reductions are considerably greater than expected. This would only be realised over the longer term, beyond 2040, and if technology can make de-salination more sustainable in future
	WRMPs, and the need for additional supply or alternative options arises, it will be considered in future options. Presently, de-salination remains

	screened out from our unconstrained to feasible options list based on environmental impact, cost and feasibility.
Recommendation 5: Demonstrate that the proposed use of drought measures will be effective in helping to manage the risk of deterioration in status of water bodies and will help maintain security of supplies. Cambridge Water must demonstrate how it will apply drought measures to manage abstraction to help avoid the risk of deterioration in status of water bodies. It should set out any changes required to its drought triggers and if this affects the company's levels of service.	We have included the benefit of drought measures from TUBs in our dry year supply demand balance, these could be pertinent to ensuring a positive SDB from 2025-30. For 2030- 32 a small SDB deficit remains to be offset by IROPI different of licence caps – the deficit is singularly driven by this requirement. This defict would remain in a normal year as well as a dry year. Drought measures would normally be introduced in accordance with our drought plan triggers, which are predicated on 2 dry winters, although we maintain the ability to introduce these due to lack of supply availability due to other factors if required. We are currently reviewing and updating our drought triggers and levels or service for our next drought plan.
Recommendation 6: Accelerate universal smart metering, explain the assumption of zero benefit and clarify individual components of the metering strategy. The company should complete its universal smart metering programme by 2030 or provide strong evidence why this cannot be achieved. It should also re- consider the assumption that smart metering delivers zero benefit to water consumption.	To deliver universal metering, we will be looking to install circa 3,000 meters per year across the ten years from 2025 to 2030. New properties will be metered upon completion As we believe metering is a key enabler for activities with drive leakage reduction as well as PCC reduction, we are keen to accelerate this work wherever possible. As such, as part of the Defra accelerate spend initiative, we have proposed to accelerate this work and therefore starting in 2024. This would enable us to complete the earlier than 2035. This will add more security in the delivery of both the leakage and PCC ambitions as we will have more data and information to enable these activities. We have explored delivery of our metering programme by 2030 with our supply chain and taken the learnings from other companies such as Anglian Water and Thames Water that have undertaken larger programmes in AMP7. These ambitious programmes have provided some difficulty in delivery, and our already high metering penetrations means there is a higher than average proportion of more difficult meters left to install which impacts on the overall delivery pace.

	We have updated our views on metering benefits
	following this feedback on our draft plan. We
	have utilised detailed data from Thames Water to
	demonstrate a 13% saving can be achieved per
	household upon installation of a meter and this
	assumption is included in both our revised draft
	WPMP and the undated planning tables
	accompanying it
Recommendation 7: Clarify the empition to	Accompanying it.
Recommendation 7: Clarify the ambition to	we have fully addressed this issue in section
reduce non-nousenoid demand and justify the	11.1.4 Non-Household consumption in the
provision of new non-household supplies that	revised draft WRMP and have updated the
are not sustainable. Cambridge Water should	accompanying data tables to ensure the correct
resolve differences in the data on non-household	savings are demonstrated.
demand in the plan and work with non-	The Environment Act targets look to deliver a 9%
household sectors to manage demand. It should	saving by 2038 and a 15% saving by 2050 from
include dry year forecasts where it believes its	the 19/20 baseline position. Due to the extensive
non-household consumption is weather related.	growth in the Cambridge region, we found that it
	is not possible to achieve this as all new NHH
	would have to be water neutral, as well as making
	reductions to existing non-household properties.
	For context, our NHH demand is forecast to
	increase by 55% by 2038 from the 19/20 baseline
	position, an increase of 12.5 MI/d. There are
	areas of biomedical, science and technology
	growth in the NHH forecast for Cambridge which
	can be higher users of water, and therefore
	through our discussions with developers as part
	of producing this plan, achieving water neutrality
	is not possible at this stage. We have instead
	planned to deliver a 9% reduction from the
	forecasted 2038 position by that date, and 15%
	reduction from the 2050 forecasted position by
	that date
	We have explored the option to temporarily
	restrict new NHH connections until we have some
	of our longer term new supply options in place
	We discuss this in our alternative plan section in
	the revised dreft MONAD Heurover we are also in
	the revised draft vy Rivie. However, we are also in
	regular discussions with Defra, DHLUC, Greater
	Campridge Shared Planning and the Environment
	Agency about the ambitious economic
	development plans for the Cambridge area,
	referenced in the recent announcement by the
	Prime Minister and Michael Gove (Secretary of
	State for Levelling Up, Housing and Communities)
	(see <u>link</u>). Here the future ambitions are clear and
	we have therefore continued to plan for these as

	we work with these organisations and the new Water Scarcity Group, to identify additional opportunities to address the concerns in the region to enable the desired growth. We are keen to drive efficiencies and improvements across the non-household sector. This is more challenging as we must work with Retailers, who own the relationship with non- household customers, but we believe there are real benefits to be delivered in this area and our plan outlines our activities such as fitting enhanced metering to all NHH properties and undertaking water efficiency audits, continuous flow monitoring and leakage support.
Recommendation 8: Provide confidence the	We have detailed the approach to uncertainty in
plan will achieve assumed proposed demand	the 'Cambridge Water Resources Management
reductions and the actions needed to keep	Plan 2024' report, however, we have assessed the
demand savings on track. Cambridge Water	uncertainty in our supply and demand forecasts
about the delivery of its demand management	revised draft WRMP, we have included
and leakage actions, this should be specific to the	component D4 in our headroom calculation which
company. It should include an assessment of	specifically relates to uncertainty in the demand
uncertainty in its demand management options	management options.
and allow for this in headroom.	We have also included a new section in the plan,
	deliver, monitor and report on our demand
	management activity.
Recommendation 9: Ensure there is clear	We have also included a new section in the plan,
monitoring of the demand management	section 11.3, which discusses how we propose to
programme. The company should show how it	deliver, monitor and report on our demand
demand management proposed is not achieved	management activity.
Recommendation 10: Complete a full review of	We review our source reliability and outputs
source vulnerability and reliability; include	annually and have an ongoing programme of
investment in making existing supplies more	maintenance and upgrades to ensure minimised
resilient. Cambridge Water's outage	any unplanned downtime. Maintenance does
performance is poor. It should work proactively with the Environment Agency and other	also require outages at sources, and the majority
regulators to highlight supply risks early so	result of water quality issues outside of our
everything possible can be done to avoid over-	control, and we are committed to ensuring water
abstraction.	quality remains compliant. We acknowledge that
	we have had some long term outage concerns
	during AMP7, again due to water quality
	constraints, and we have detailed our approach
	annual review submission.
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	Outturn outage will legitimately vary year from year, and from the outage allowance for WRMP and the unplanned outage performance commitment. Our annual unplanned outage performance is within the expected allowances in the WRMP, and unplanned outage is managed according to the supply needs for SDB and compliance to avoid over abstraction at individual locations.
Recommendation 11: Revise the strategic environmental assessment (SEA). The report should make it clear how the options compare to least cost, best value and best for society and the environment plans. The company should also address other shortcomings in its SEA, including identifying transboundary effects and showing how in-combination and cumulative effects have been considered within the SEA. Cambridge Water should provide certainty that all significant effects have been captured. It needs to ensure that monitoring and cross boundary effects are assessed once the plan is implemented.	The SEA has been updated for the revised draft. In the revised draft WRMP, sections 11.7 and 11.8 detail the work we have done to test our plan against various potential scenarios, aligned to Ofwat's common reference scenarios, the impacts these would have on the plan and the adaptive pathways we would need to take if these came to pass. In addition, section 118 addresses adaptive planning that looks at elements such as environmental destination. The SEA methodology was undertaken in accordance with the methodology developed at the Scoping Stage which included the statutory consultation process. In combination effects will be addressed as per the documentation. Where there is remaining uncertainty, around options we will identify a programme of works for the relevant options to address these data gaps.
Recommendation 12 : Ensure the plan is legally compliant by adhering to the WRMP Directions. The plan fails Direction 3(d)(i), (ii), (iii), (iv), (v); Direction 3(g)(iii) and Direction 3(h)(iii).	We have updated section 10.9 to detail our existing greenhouse gas emissions and then the impact that our plan will have on these. We have also included our plan to achieve net zero operational carbon emissions by 2030 in this section.
Improvement 1: Explain how the company will reduce greenhouse gas emissions.	Section 10.9 in our revised draft WRMP now includes our plan to achieve net zero with respect to energy
Improvement 2: Clearly set out all existing bulk	Added a table to section 2.9 in the main plan with
Improvement 3: Clearly present the proposed	We have included drought measures in the data
use of drought measures in the data tables.	tables for TUB but not for NEUB. We believe that TUBs could be implemented in any dry year if necessary, but that NEUB are not appropriate for every dry year, and would be used in more

	serious, extended droughts, Here also the benefits are less certain and not required to maintain the SDB in a dry year.
Improvement 4: Improve the approach used for accounting for climate change impacts to include further evidence and justification. Cambridge Water should clearly set out the vulnerability of its water resources zones to climate change using the required assessments. It should explain how the impacts have been modelled and accounted for in its plan.	The approach outlined in Appendices D and E demonstrates that we have applied the required level of assessment to understand the vulnerability of our WRZ to climate change. We have expanded on the summary in Section 2.6 of the revised draft plan to provide more information on this. We have also revised the approach to quantification of climate change impact to utilise more recent data sets, and applied the likely reduction in yield to each groundwater source, and included this in the WRMP tables.
	It should be noted that due to the reduction in licence availability following proposed licence caps in 2030, licence constraints override yield constraints and any climate impact on the yield of our sources, as replacement supplies would be from a bulk transfer not subject to yield reductions. This will also be the case from 2036, when Fens reservoir is in operation replacing further groundwater abstractions. Fens reservoir will have climate change incorporated into the declared DO/yield and for a 1:500 resilient DO.
Improvement 5: Clarify the use of best value metrics.	We outline the metrics we used through our ValueStream multi-criteria analysis in section 9.3.2 of the plan. These metrics are weighted and this then provides a value score for each programme of work, focusing on delivering the best value plan. This is how we have determined our best value plan.
Improvement 6: Improve the information provided in both the household and non- household demand forecast technical appendices. Cambridge Water should provide information in the plan about how it is using the improvements suggested by its consultants to improve its demand forecasts.	We have used the time between the draft WRMP and the revised draft WRMP24 plan to engage further with Artesia and our strategic planning partners to enhance the plan and improve all the elements of the plan including demand forecasts. We have also included our response to the recommendations highlighted by our consultants (on page 57 of appendix C1) in section 5.13 of the revised draft plan. This is a new section called "Ongoing demand forecast work".

Improvement 7: Review resilience of the plan in the context of the 2018 and 2022 droughts.	In January 2023, we undertook a review of the drought of 2022, highlighting the successes, lessons learned and future recommendations. We have included this as an appendix to the revised
	draft plan.

3.9 Everflow

Consultation Comment	Response
Regional and wholesaler water resource management	In our draft WRMP we included plans to
plans do not adequately consider the potential of the	reduce non-household consumption by
NHH market to deliver water demand reduction. Some	9%, aligned with the Environment Act
general commitments to the NHH market are included,	target. We proposed to deliver this
e.g., retrofitting NHHs with smart meters alongside	through the implementation of enhanced
households over 10 to 15 year periods, but we would	meter technology throughout our whole
like to see more details about NHH smart metering and	non-household population. In the revised
water efficiency plans before final WRMPs.	draft WRMP we have further enhanced
Echoing MOSL's point from their WRMPs response,	our options in this area to support this
several WRMPs barely mention the NHH market in the	reduction and achieve 15% reduction by
main document, and in some cases, important NHH	2050. This is detailed in section 11.1.3 and
information is buried in appendices. The NHH market	include:
consumes 30% of water in England, so it's essential to	 Water efficiency reviews and
include an overview of how it features in your plans in	audits
the main document.	- Data reviews e.g. continuous use,
We therefore urge wholesalers to align with the national	to help identify wastage and
NHH metering strategy being developed by MOSL.	leakage
We would like clarity on how many smart meters (AMI	We have included this detail in our main
not AMR) you intend to deploy in AMP8 and beyond,	report in section 11.1.3. Here we include
including visibility for retailers on when and where they	the detail of our programme, including the
will be rolled out, to avoid duplication of effort or	number of meters per year. We're
customers paying for loggers when they don't need to.	proposing an even profile of installations
	which equates to circa 3,500 meters per
	year for non-nousenoid customers. Our
	targeted roll-out programme will now be
	developed prior to 2025 and shared with
We would like wholesalers to align with the national	We will work with retailers to ensure that
NHH metering strategy position on data sharing	data visibility is readily available for them
Proactive logging and continuous flow/high usage alerts	and for NHH customers
for customers via retailers are also key to obtaining 'in	
the moment' conversations about water efficiency	
which NHH customers are more likely to engage with so	
smart data should be shared with the customers'	
retailer.	

	T
We would also urge wholesalers to pool their NHH	
benchmarking data (ideally nationally) and share this	
with retailers operating in their area, so that the	
benefits of big data can be realised and result in better	
targeting of water efficiency and leakage services by	
retailers.	
We would like more detail on how water efficiency	We will look to prioritise our support to
services will be offered to different categories of NHH	the highest water users initially, including
customers.	a review of continuous flow users. We
We want to be able to offer water efficiency services	believe this will enable to us to identify
consistently nationwide so that water saving is simpler	the largest savings first. As the programme
for NHHs to engage with We would prefer a nation-	progresses we will move to medium
wide approach to demand reduction so that multi-site	usors
sustamors have clarity about the services and funding	Many of our large multi-site sustemers
and/or incontines available to them	have sustainability loads who have a
	have sustainability leads who have a
	strong locus on energy and water and
	therefore we will work with these teams
	to provide advice and support. In reality,
	there may be few gains to be had here,
	and we will focus on large single site users
	who may not have the internal support for
	this activity already.
	We are proposing a programme of
	household water efficiency audits and will
	adopt the same approach for small non
	household customers in the same area
	where appropriate e.g. hairdressers, shops
	etc. We will also take the same approach
	with our metering rollout. This is because
	we believe there are efficiencies to be
	recognised by combining these NHH
	customers with the local HH customers.
We would echo Waterwise's request last year for a	In developing our non-household
wholesaler commitment to greater collaboration with	consumption reduction plan, we have
retailers in the plan, and a more detailed plan for how	liaised with other water companies in both
they will deliver demand reduction in the NHH sector.	Water Resources East in order to agree a
This could involve:	common approach. Section 11.1.4 details
- Technical support with abstraction options	the Retailer engagement club project that
 Providing a sterner 'police' type function when 	we undertook with the other WRE
customers don't respond to retailers about	companies to identify the best
potential leaks and over consumption (e.g.	mechanisms to reduce water efficiency
issuing leak notices and showing local	and how best to engage with retailers and
connections with water deficits/risks to supply	non-householders in order to deliver our
or the environment)	nlan. We believe this is important so that
- Sharing smart meter and logger data	Retailers can expect a consistent approach
- Sharing plans for smart meter/logger roll outs	from the various Wholesalers with whom
	they work. This will lead to the most
	they work. This will lead to the most

 Offering white label services (as most wholesalers already do for meter reading) for leak detection and repair, water efficiency site surveys and installing water efficiency products. However, we believe a competitive market for these services would serve customers best, so do not think that wholesalers should offer these directly to NHH customers. 	efficient way of engaging and operating with both retailers and non-household customers in order to deliver the maximum benefits.
Retaining TUBs and NEUBs for peak demand or droughts is regrettable for our customers, but if they must be used, we ask that the plan details how retailers will be involved in customer communications around these. Ideally communication protocols should be agreed in advance so that they can be sent out in a timely and organised way.	This information is detailed in our drought plan which was published in 2022. The link for this document can be found <u>here</u> and Appendix B details our communication plan.
We ask that all wholesalers: - Specifically detail their plans for NHH metering and water efficiency	We included our plans for NHH metering in our draft WRMP, and our revised draft WRMP now shares more detail on this plan and additional information our on NHH water efficiency plans. This can be found in section 11.1.4.
We ask that all wholesalers: - Align with MOSL led national approaches	We are committed to aligning with MOSL led national approaches wherever possible.
 We ask that all wholesalers: Think about how to incentivise retailers to deliver water efficiency or collaborate. 	Our club project has been exploring this with retailers and we are committed to continue exploring this option.

3.10 Gamlingay Parish Council

Consultation Comment	Response
Gamlingay Parish Council wish to respond with regard to	Our WRMP only addresses the
the issue of farmers water extraction rights. There are	abstractions licences held by Cambridge
no references made to reduce in the proposed rate of	Water for public water supply. Those
extractions allowed by the farming community along our	relating to farmers and other licence
tributary , although there is plenty in the plan about	holders will be included in the Water
individual residential consumers cutting down usage.	Resources East regional plan and
There is a large extraction licence on the Potton	management policies are managed by the
boundary, which significantly affects water flow, and	Environment Agency.
also farmers along Millbridge Brook also extract water	
for their crops at a critical time for wildlife, invertebrates	
and fish life.	

Please can you advise in the plan how management	
policies will change with regard to reissuing extraction	
licences for farming purposes going forward?	

3.11 Green Party: Cambridge & South Cambridgeshire

Consultation Comment	Response
The WRMP needs to take a more pro-active approach to	As part of the Water Resource Planning
the large variability in rainfall and weather that is likely	Guidelines for this round of WRMPs, we
to become increasingly normal, and will require a	have to improve the resilience of our
commitment to the precautionary approach. The draft	system to drought conditions, recognising
currently lacks a sense of urgency about the need for	the changes to weather patterns that you
immediate action.	outline as a result of climate change. Our
	plan achieves this level of resilience upon
	implementation of the Fens Reservoir.
We believe the priorities should be to:	Our plan outlines our two stage approach
 Rapidly reduce abstraction from the Chalk aquifer, 	to reducing abstraction from the chalk
including by capping abstraction at today's actual levels;	aquifer. Our first stage will involve already
 Take much more concerted and urgent action to 	quantified and understood licence caps
manage demand, with actions that go beyond reliance	across specific sources – some of these
on voluntary individual behaviour change.	licence caps actually go beyond your
	suggestion and cap abstraction a lower
	levels than today's levels. This is why an
	additional supply side option is required in
	the form of the water transfer from
	Grafham Reservoir.
	The second stage involves further
	investigation between 2025 and 2030 to
	identify the full scale and the exact
	locations of reductions required to mee
	the Environmental destination outlined in
	the Environment Agency's National
	Framework for Water Resources 2021.
	Again, in order to enable these reductions
	we will need a new supply side option
	which is the proposed Fens Reservoir.
	Upon commencement of this, we can
	make these additional abstraction
	reductions.
	Our plan looks at reducing demand before
	increasing supply. The options selected do
	involve education of customers through
	actual meter data with advice and support

	to help customers make sustained changes
	to reduce their water usage and wastage.
	We are also proposing home visits for high
	consumption properties to deliver
	interventions to reduce usage and
	wastage as well as leakage. We are
	currently trialling flow regulators that
	could be installed at a property boundary
	to reduce flow to the prescribed pressure
	we must meet what will reduce water
	we must meet what will reduce water
	Wastage.
	"A DID" group which would look to
	ARID group, which would look to
	replicate the "RAPID" organisation for
	demand management focus. We believe
	that this focus and support will enable the
	delivery of the activities identified across
	water company WRMPs, as well as identify
	new opportunities. We're keen to work
	with the rest of the industry to deliver a
	consistent national message in order to
	deliver the scale of change required.
Other key points are:	110 l/p/d:
 The target of 110 litres per person per day by 2050 	As part of our optimisation work for our
should be more ambitious – it should be 80 l/p/d as	demand management options, we did
soon as possible	assess the option to deliver 90 l/p/d by
 Introduction of TUBs and NEUBs 	2050. We found there was no route to
• Universal metering to be rolled out as soon as possible	achieving this unless the government
• Acceleration of installation of water recycling and	introduce water labelling with minimum
rainwater harvesting schemes in both old and new	standards. However, at this stage they
huildings	have said they are looking to progress
Surungs.	without the minimum standards at this
	stage - in that circumstance we cannot
	achieve 0.0 l/n/d by 2050. Even with the
	actileve 90 l/p/d by 2050. Even with the
	was estimated to be over \$100m this
	was estimated to be over £100m – this
	works out to be over £11m per IVII saved
	which is significantly higher than the
	average unit rate and therefore cannot be
	deemed to be a best value approach.
	TUBS and NEUBS:
	Temporary Use Bans (TUBs) and None-
	essential use bans (NFURS) application
	and triggers are developed and detailed
	within the drought management nlan
	rather than the WRMP. However we have
	Tauter than the witting. However we lidve

committed to a review of our drought triggers and this will look at the frequency at which these demand restrictions may be required as well as when these should be instigated. TUBs and NEUBs have a part to play in the reduction of demand. However, we know from 2022 from the companies that did use TUBs that reductions in demand are not sustained. We believe that we need to educate customers on the water resource situation and the critical link to the environment, and then support them to make sustained changes to their behaviours if we are truly to deliver the level of ongoing reduction we are targeting. This is the basis of our demand management plan, centred around universal metering, which will provide the data and information to support this activity.

Universal Metering:

As part of our optimisation, we have assessed delivering the universal metering programme by 2030. However, there are several reasons that we do not believe this is a viable options:

- We have developed our plan with our supply chain to ensure that it is deliverable – accelerating the proposed programme would create supply chain issues with resources to deliver and meter availability.
- All companies have ambitious metering programmes. This is putting a strain on meter stock, which is exacerbated by current world affairs.
- Several companies have undertaken large scale metering programmes between 2020 and 2025 and found delivery challenging – we have liaised with these companies to understand the lessons learned and ensure we build a plan that reflects these.

	In Cambridge we already have a higher level of metering penetration than the industry average at 74%, and we acknowledge that 100% will not be fully achievable due to share supplies and other complexities, but believe our plan is ambitious and deliverable.
	Rainwater harvesting: We are working with Defra, Greater Cambridge Planning and developers to identify opportunities for rainwater harvesting and greywater reuse systems. These are significantly more cost effective when installed during a new build and we have encouraged developers to consider these mechanisms wherever possible and to strive for water neutrality.
We are uncertain that the pre-consultation comments from the Environment Agency (EA)2 on the draft WRMP have been adequately addressed. The EA states in these that "the reductions [to abstraction] required are expected to be significant and may cause large discrepancies between the forecast and actual baseline SDB. We expect the company to demonstrate in its plan that its abstraction is sustainable now and long term. As part of the Chalk Stream Restoration Strategy, we are calling an end to unsustainable abstraction and expect your plan to protect and improve the environment, considering both current and future challenges." In correspondence with the Cam Valley Forum, the Environment Agency had noted that a 60-70% reduction in abstraction at source from the Cam Chalk aquifer is needed to ensure river flows, as assessed by the Environment Agency.	Our draft WRMP outlines the licence caps that we will apply to our sources. These licence caps have been determined by the Environment Agency. Likewise, the longer term environmental destination has been identified from the Environment Agency's National Framework for Water Resources. They have shared the basis of their calculations for this and we have used these numbers in our plan for the future abstractions reductions we will deliver. We will clarify the true scale of these reductions and the exact sources these are required as through our investigations between 2025 and 2030 and this will be included in our WRMP29. We have developed our plan through collaboration with the Environment Agency and so are confident these abstraction reductions are aligned with their requirements, as outlined above.
Abstraction from the Chalk aquifer has to be reduced at source so that Chalk springs and headwaters run freely, as they would under natural conditions, every year, whatever the weather.	We are committed to reducing abstraction from the chalk streams to deliver sustainable abstraction and therefore restore and protect these unique environments.

There is an urgent need for Cambridge Water, the	We are working closely with Greater
relevant local authorities and the planning offices to	Cambridge Planning, the Environment
work with the EA to discuss this fundamental conflict	Agency and Defra to ensure that the
and identify potential solutions. Cambridge residents	growth in the Cambridge region is
need reassurance that these concerns are being	sustainable. We are working with the new
addressed, particularly with the recent news about the	Water Scarcity Working Group that has
accelerated speed of climate changes. The view of the	been convened by the Department for
Green Party is that all development planning in Greater	Levelling Up, Housing and Communities,
Cambridge should be paused until there is a better	the Environment Agency, Ofwat, central
understanding of both future predictions for growth and	and local government and innovators
jobs in the city, and future water supplies.	across industries to accelerate plans to
	address water scarcity in the area. As part
	of this work we are exploring the role all
	sectors must play in ensuring the
	development is sustainable and the
	options and opportunities we can explore
	to achieve this. This proposal it outlined
	here Long-term plan for housing - GOV.UK
	(www.gov.uk)
Recovery, enhancement and protection of the natural	We have proposed an extensive chalk
water environment based on the catchment approach is	stream river restoration programme in our
essential. The consultation document pays very little	business plan for 2025 to 2030, which is
attention to this and there is no mention of the 2021	due for submission in October. Our chaik
Catchment Based Approach (CaBA) Chaik Stream	stream restoration work forms part of our
Restoration Strategy, which emphasises the OK's global	Water industry National Environment
responsibility to protect chark streams and calls for	Programme (WINEP). This is our
urgent reduction in damaging abstractions. As identified	programme of environmental
by the Cam valley Forum, the health of the Chaik	improvement, where the write locuses
springs, neadwaters and downstream rivers in the	on water resource supply and demand.
Cam catchment depends on an aquifer that has long	However, for the revised draft plan we
been adversely impacted by groundwater abstractions.	have added section 11.10 which shares
Since 1990, despite 14 schemes to address low or non-	the detail of our WINEP programme, and
existent flows in some 30 springs and headwaters, low	more specifically, our chalk stream river
flow continues to severely impact wetland and stream	restoration programme and now it links
biodiversity and contributes to the Cam Chaik aquifer	Into the National Chaik Stream Restoration
rating of 'Poor' ecological quality. Low flow contributes	Strategy.
to the growing impact of pollution and, as climate	
change progresses, the ever more frequent drying-out	
will further endanger the wildlife that depends on them,	
including protected species such as the water vole.	
The most notable points about the proposed supply	We have further expanded on our demand
options are now limited they are, the uncertainty with	management proposals in section 11.1 of
which they are likely to fulfil the requirements that have	our revised draft management. In
been identified, and the enormous dependence on the	addition, we have added significantly
Fen reservoir. This emphasises now critically important	more detail regarding the different
the proposals are for demand reduction: as explained in	options we assessed into section 9.4.1.

the next section, we do not feel that adequate attention has been paid to these. We note with concern the comments in the consultation materials that there is a high probability of a shortfall in supply between about 2025 and 2030.	We are cognisant of the concerns around deliverability of the demand management activities. We have worked with the Environment Agency to develop additional scenarios to test our plan against, and
	these are detailed in the revised draft WRMP in section 11.4. In addition, we've added a new section to the revised draft WRMP, section 11.3, which outlines how
	we will ensure delivery of our demand management activity, how we're monitor progress, adapt to any changes and how we're report our progress.
Water transfers from (a) a source at Fenstanton (2	The regional water resource management
MI/day) and (b) from Grafham reservoir (15 MI/day)	plans show the overall regional water
We agree that surface water transfers are necessary in	resource requirements and connection
the short to medium term to meet demand without	between the other regions. These regional
increasing abstraction from the chalk aquifer, and that	planning teams ensure that we do utilise
surface water transfers could potentially be used to	water where it is in surplus by looking to
supply the new reservoirs if they provide the best	move it to areas of deficit wherever
more transparency is needed about transfer of water	best region are still mot
hetween regions: it is essential that every region has	We have included more detail about our
enough water for people and the environment and that	proposed Grafham Transfer in section
the embedded carbon costs of transfer infrastructure	9.5.3.
are minimised.	
Water recycling using water from one of Anglian's	We have included more detail on this
wastewater treatment works The non-technical	scheme in the revised draft WRMP to
summary states only that this will "support flows in a	ensure that it is clearer for the reader. This
key river in our Cambridge region. This would enable us	is in section 9.5.2.2.
to take water from the river without affecting the	
environment." At the public webinar this was explained	
as referring to water treatment from Anglian Water	
waste water schemes. We can find no clear explanation	
of what this means in the main draft WRMP (beyond	
reference to the treatment works at Milton), and	
nave not had the capacity to go through the detailed	
annexes. Exactly what is planned needs a much clearer	
and water pollution. We do however agree that if	
and water pollution. We do nowever agree that if	
nurification) of wastewater from wastewater treatment	
works is one supply option.	
The proposed Fens Reservoir As outlined in our	We are committed to ensuring that the
consultation response, there are a number of issues to	Fens Reservoir is designed with the ability
be considered including ensuring that the design	to maximise co-benefits as much as

management leigure) and the environment. The Cam	Partnership, we have been collating key
Valley Forum and other experts have previously also	stakeholder views to feed into this
suggested antians in the form of a distributed network	planning process, and we obtained further
of smaller water supply reservoirs within the Cam	detail on this through our public
of smaller water supply reservoirs within the cam	detail on this through our public
catchment; and creating infiltration basins in suitable	consultation. we are committed to
locations, fed by surface water during high winter flows,	continuing this level of engagement to
to allow natural managed aquifer recharge. It would be	ensure we identify the possible
useful to know if these have been investigated.	opportunities and develop the appropriate
	mechanisms for delivery.
50% reduction in leakage of the network of Cambridge	As part of the development of our revised
Water pipes (from 2017/18 levels) by 2050, with a	draft WRMP we have taken into account
tripling of the rate of reduction by 2030. The public is	your view and similar views from
well aware of the enormous leakage rates in the pipe	customers and other stakeholders. As
network and recognise that this is due to the old	such, we are proposing to accelerate our
infrastructure being very run-down and needing major	leakage reductions in the revised draft
repair and replacement – there has been much media	WRMP and will achieve the 50% leakage
attention on this. We are therefore surprised to see so	reduction target by 2040
little explanation of the reasons why the target for	
addressing this is so slow: it is very hard to understand	
why the water company feels that a reduction rate of	
only 50% cannot be achieved well before 2050	
Ouestions have been raised at stakeholder engagement	
Questions have been raised at stakenoluer engagement	
webinars but to date there has been no satisfactory	
response, and Cam Valley Forum are similarly concerned	
about this.	
about this. Household water use reduced to 110 litres per person	As part of our optimisation work for our
about this. Household water use reduced to 110 litres per person per day by 2050 and nonhousehold water use reduced	As part of our optimisation work for our demand management options, we did
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that all major new housing and business development	operate a developer incentive scheme
should therefore meet a design standard that reduces	which means that developers building to
personal water consumption to 80 l/p/d, and be	these lower standards do not pay a
required to include water-efficient appliances and	connection charge. We will be building on
measures such as water harvesting and greywater	this for our next business plan too and will
recycling.	be taking into account best practice across
	the industry in this space.
The draft WRMP focuses very much on voluntary	
individual behaviour change, which should clearly be a	We recognise that more detail on the
part of the strategy but must not be relied upon to	options included in our plans, including
deliver the necessary reductions in demand: the efforts	the risks, is required for the revised draft
made during the 2022 drought were quite clearly	WRMP. Therefore we have included this in
inadequate (water usage increased) and a critical review	this updated document in the demand
of this failure is needed to identify a better approach.	management options section 9.4.1.
We would like to see a clearer summary of the pros and	
cons of the various inter-related options which include:	
 Universal metering and roll out of smart meters – see 	
below in 3.3	
 Water re-use and recycling – listed as a target for 	
Demand Management, this is also a target for supply	
options and so is discussed above	
 Public awareness campaigns 	
 Retro-fitting of existing buildings 	
 Introduction of TUBs and NEUBs, currently only 	
considered necessary in formally declared drought	
periods	
 Installation of water-efficient white goods 	
Public awareness campaigns: Decades of campaigns on	Our water efficiency programme that we
'saving water' have failed to deliver the necessary	have proposed will include undertaking
reductions. We believe better results could be achieved	home visits to identify ways to reduce
through a holistic approach to water reduction in the	usage and will also identify wastage and
home, including advice and support for retrofit (for	leakage. These visits will also deliver
example rainwater collection and grey water re-use	practical solutions to resolve these issues
within the home), rather than awareness campaigns	such as installation of water saving devices
which encourage small behaviour changes like taking	and support to resolve any leakage
shorter showers. Examples include group-buying	identified.
schemes for water efficiency measures (for example	We are also reviewing how we improve
installing greywater recycling systems, or simply	information on bills. It is difficult to
organising small repairs like repairing dripping taps) in a	provide usage in litres per person without
similar way to solar panel group-buying schemes; and	knowing the exact number of people living
introduction of street-by-street projects (rather than by	in each property, which is difficult
individual household) to help neighbourhoods	information to gather and keep up to date.
implement sustainable drainage and water efficiency	However, we are exploring options to
measures. Better and clearer information should be	make usage clearer and more meaningful
provided on water bills, showing much each individual	on bills.
	1 1

statistics (litre/person/day seems to be the most common, but cubic metres are often referred to).	
Retro-fitting existing buildings: In order to reduce	The current cost of retro-fitting to
overall demand, retrofitting to reduce water use will be	domestic properties is very high and
essential and is urgently required. This would include	therefore outweighs the benefits when
replacing inefficient fittings with new water-saving	compared to other water saving initiatives.
alternatives to installing water-butts and other water	There are potential opportunities to
collection devices.	explore this across the non-household
	population; however since market
	opening, water companies are not funded
	to undertake this scale of work on non-
	household properties which are now
	managed by retailers and therefore cross
	sector working is required to help explore
	these options in more detail.
	We are working with developers on new
	builds to identify opportunities for
	rainwater harvesting and greywater reuse
	as this is significantly more cost effective
	when installed during build.
Temporary Use Bans (TUBs) for domestic properties	Temporary Use Bans (TUBs) and Non
and non-essential use bans (NEUBS)	Essential Use Bans (NEUBS) application
commercial and other activities: we agree with the	and triggers are developed and detailed
Cam valley Forum that a new baseline of annual	within the drought management plan
restrictions on inappropriate uses of drinking water use	rather than the WRIVIP. However we have
should be established (e.g. a ban on household use of	triggers and this will look at the frequency
Spinikiers, nosepipes, and high-pressure washers from	at which those domand restrictions may
as possessively year) and tightened progressively	be required as well as when these should
as necessary in dry weather in response to	be instigated
Cambridge Water discusses the application of drought	TUBs have a part to play in the reduction
measures in relation to Regulation 19 of the Water	of demand. However, we know from 2022
Framework but this is highly technical and it is unclear	from the companies that did use TUBs that
what the recommendations are. We strongly urge the	reductions in demand are not sustained
introduction of TLIBs and NELIBs as recommended in	We believe that we need to educate
our response to the 2021 consultation on Cambridge	customers on the water resource situation
Water's Drought Plan. In this way, everyone is playing	and the critical link to the environment
their part in using water wisely. We believe that the	and then support them to make sustained
majority of the Cambridge public will understand the	changes to their behaviours if we are truly
need for this approach. A closer integration of	to deliver the level of ongoing reduction
Cambridge Water's drought planning with its overall	we are targeting. This is the basis of our
water planning is urgently needed, as alluded to in our	demand management plan, centred
letter to the Chair of Cambridge Water in 2022.	around universal metering, which will
	provide the data and information to
	support this activity.
Labelling of water-efficient white good and household	In our revised draft WRMP we have taken
appliances: The proposed Government changes to the	a more cautious approach to the benefits

labelling of white goods and household appliances to	we believe water labelling will bring. The
show their water efficiency is seen as a solution in the	Government have stated this will be
WRMP. We welcome this but, given that the proposed	introduced in 2025 but, like you, we
national legislation will take time to come into force (it	believe it will take time before the
is still at consultation stage) and will then take even	benefits are recognised. We have taken
longer to have an effect (households will not	the low scenario of proposed savings and
automatically replace their existing appliances), this will	we have delayed the start of the benefits
not start to change behaviour for some time.	to 2030.
Roll out of universal smart metering between 2025 and	For our universal metering rollout we will
2035 We believe that the immediate priority should be	be focusing on houses where there is no
to install meters in households where water use is	meter first for the reasons you suggest.
currently unmeasured. Households which already have a	
meter – even a 'dumb' meter – can at least see their	We are currently unable to introduce tariff
water use when they receive the hill and have an	charging due to charging regulations set
incentive to reduce it	out by our economic regulator Ofwat.
	However we will be undertaking a trial of
We consider the target date to achieve universal	this method in 2024 in order to
metering far too distant and recommend that it is	understand how it might work what
brought forward to at latest 2030 in line with the	works to incentivise customers to use less
target set by Anglian Water. With meters installed	water and how this could be rolled out
nricing can then be used to encourage lower water	across a wider customer base. As a result
consumption (recognising that there will need to be	we will be sharing the details with Ofwat
concessions for those who have to use large amounts	and hone that the charging mechanism
of water are on benefits etc.) The pricing structure	will be reviewed in the future to enable
could be such that the cost/litre increases above a	this concent. Our WRMP includes these
certain level (e.g. $80 l/n/d$) so that there is a clear	innovative tariffs from 2035 and believe
financial incentive not to waste water	this is a realistic timescale for installation
	of the remaining properties requiring a
Other water companies (e.g. Sovern Trent) have been	motor and those changes to be enacted
installing smart meters much more ranidly, and there	
are coveral ways to do this. Single motors can be	Cambridge Water already have a much
installed for groups of properties such as flats: the	higher meter penetration than companies
Council is also taking store, through conditions in	nigher meter penetration than companies
Council is also taking steps, through conditions in	such as severn Trent water as we are
planning consents sought, to ensure that individual	already at 74%. Our customer engagement
dwellings are fitted with the means to monitor and	work for the WRIVIP has also shown that
measure their own water consumption. Cambridge	customers are concerned about the
Water should, itself, be taking a more active role to	impact compulsory metering will have on
ensuring that individual properties are metered. We	their bills, particularly in the current
have evidence from current customers that obtaining a	economic climate or for customers who
meter is difficult and slow: householders have to ask for	have high water usage for medical needs.
smart meters (these are not offered as a matter of	As such, we have to make sure we are
course) and the process then takes a long time; to quote	engaging with customers to ensure we
one householder " we asked Cambridge Water if we	identify any concerns and can support
could look at being metered. They came round. Deal	customers through the transition.
seemed to be we could go metered for two years and	We are disappointed to hear about the
then change our mind if we wanted to. And we have	poor service you outline and we will
	l ensure that we develop the appropriate

neara nothing since. I have given up phoning them,	level of resource and structure required in
waiting 30 minutes and not getting through."	order to deliver our universal metering
	programme. We have liaised with other
	companies such as SES who have done
	larger campaigns to ensure we take the
	learnings from their experience.
Lack of clarity on Stakeholder engagement	Our customer engagement work follows
Despite a long section on this in the draft WRMP, we	the structure outlined in the guidance
feel that stakeholder engagement and the quality of	from our regulator Ofwat. We have
public consultation has been poor. The average person	undertaken multiple sessions and forums
in Britain has taken the existence of a plentiful supply of	with customers from all sectors of our
water very much for granted but, over the last 2-3 years	community and have also undertaken
there has been rapid development of public concern for	stakeholder engagement sessions.
the fact that this is one of the most water-stressed parts	including during the consultation process
of the UK. It is not clear whether the water company has	for our draft plan. Our approach has also
engaged with the many people who are genuinely	been well received by our customer
concerned	regulator the Consumer Council for
	Water.
The consultation documents go to some length to try	As part of this engagement work we do
and show that there has been extensive customer	share with customers the needs of our
engagement that has taken place (on-line surveys.	region and the challenges we are facing.
WRAP Advisory Panel, 2 research studies etc), but the	We must also ensure our plan reflects the
detailed methodology and report on stakeholder and	priorities of our customers and that
customer engagement that was provided is not easy to	customers find them accentable and
understand Given the annarent extent of the	affordable
consultation, it is very surprising that the current	South Staffs Water and Cambridge Water
widespread public concern and interest in water	operate under a single operating license
supplies are not more clearly reflected in the proposals	but are two congrate regions under this
Supplies are not more clearly reflected in the proposals.	This is why Combridge Water has it's own
what the sustaines "(used ") at here there what is a studie	This is why cambridge water has it's own
what the customers want rather than what is actually	water resource management plan which
needed to resolve the problems.	reflects the needs of this operating region
	alone. It should also be noted that South
We also have major concerns that the fact that	Staffs Water is also classified as an area of
Cambridge Water, operating in a highly water-stressed	serious water stress by the Environment
area, is owned by South Staffs Water (covering an area	Agency.
with a relatively plentiful water supply) may have an	Cambridge Water has staff based in the
influence on the recommendations and plans for	region in our office in Fulbourn Road, as
investment. This emphasises the concern that a water	well as at local depots. Senior
company based in the west of the country probably	management work across both regions
does not have the understanding and interests of its	and represent both regions equally.
customers in the east that are required. We understand	Therefore we are confident that all staff,
that the companies have a single stakeholder	from our Board the whole way down
engagement panel for the two areas which differ widely	through our organisation, understand the
in social structure, population, geology, and climate.	challenges facing the Cambridge region
	and are committed to delivering the right
	outcomes for our customers and the
	environment.

	We have a single customer challenge
	papel because we have a single business
	plane because we have a single business
	pian submission to Orwat due to our single
	operating licence. Customers who kindly
	form part of this panel are representing all
	of our customer base. However we do
	share specific regional activities and
	proposals through this group too in order
	to ensure regional needs are met.
Inadequacy of consultation	We will take on board the feedback for the
Compiling a response to the consultation has been	revised draft plan and look to simplify
difficult as the majority of materials provided are far too	where possible. We do have to ensure we
technical for non-experts to understand, although we	follow the Water Resource Planning
will all be directly affected by the issues set out. The	Guidelines, set out by the Environment
non-technical summary briefly lists the proposed	Agency, which details the content we
elements of the plan but gives no explanation of what	should include and as you say some of
these mean in practice (see examples below). The public	this is technical in nature. We have tried to
webinar when it took place was useful, but was	include most of the technical work in the
chaotically organised (initial dates were sent, but then	appendices. Our pon-technical summary is
cancelled as organisations had not firmly acconted	designed to be our more customer facing
which was to be expected as they were looking for	desument which should summarise the
which was to be expected as they were looking for	document which should summarise the
suitable representatives – and then a single webinar re-	document in a more digestible format, but
instated at short notice, largely as a result of certain	we will review this document before it is
stakeholders contacting Cambridge Water about the	published for the final plan to ensure that
confusion). Only a proportion of individuals wanting to	it is comprehensive.
attend were able to do so, and the process reduced	
even further the confidence of many stakeholders.	We also apologise for the confusion
	caused with the consultation events. We
Furthermore, in their public stakeholder engagement	organised two separate webinars –
webinar about the draft WRMP, on 13th April 2023,	however two days before the first event
Cambridge Water stated that, between the closure of	we had only received one acceptance and
the consultation (19th May) and the planned date for	no other responses. As such we contacted
submission of the revised plan to Defra (25th Aug),	all invitees to inform them that the event
they will:	would be cancelled but that if anyone had
• Update the baseline demand forecast based on the	any specific queries to please contact us
latest property and population forecasts.	and we could hold individual sessions. As a
Review [their] demand management profiles to ensure	result of several people then saving they
alianment with the Environment Act interim targets	would like to speak to us, we reinstated
Provide more carbon data in the plane a the carbon	both webinar sessions as planned
impact of [their] preferred plan and [their] journey to not	Some of these new elements, succes the
anpact of finent preferred plan and finent journey to het	loarnings from the 2022 drought and the
2010 Jy 2030.	interim Environment Act to reste here
• Undertake a review of [their] arought triggers.	miterim Environment Act targets, nave
• incluae aetalls and learnings from the 2022 drought.	arise through changes made to the Water
	Resource Planning Guidelines earlier this
It is not clear if the new data and information obtained	year, and will therefore feature in the
through these activities will be made available to the	revised draft WRMP. We have also
public before the revised WRMP is submitted to Defra.	updated our demand forecasts to ensure

they have the latest information in them, and we have worked closely with Greater
Cambridge Shared Planning to do this.
These will also be outlined in the revised
draft WRMP.
Our drought trigger review is an ongoing process outside of the WRMP and we have
committed to sharing details of this with
the Cam Valley Forum as we progress
through this large piece of work.

3.12 Historic England

Consultation Comment	Response
In the final draft of the Plan we would recommend the	
addition of some paragraphs relating to the historic	
environment.	
For example,	
 Instead of just referring to environment it could 	We have made some amendments to text,
specifically mention natural and historic	where appropriate to reflect this
environment.	terminology.
WINEP investigations could also consider impact	The WINEP does not provide drivers for
on the historic environment.	investigations into the historic
Environment enhancement and restoration in	environment, when these are not linked to
this section is very much focused on the natural	outcomes. The historic environment
environment. This scope should be widehed to	would be considered at the scheme
anvironment	delivery level as appropriate
Bostore natural and historic onvironment (for	
example negatiand restoration can aid	Our WRMP is focused on the natural,
preservation of waterlogged archaeology	water environment due to its primary
 Chalk streams and rivers are not the only 	purpose as a water management plan.
environmentally sensitive areas. There is a need	Where the proposals may have an impact
to identify and consider what areas of the	or opportunities relating to the historic
historic environment are sensitive and	environment, this will be assessed, and as
vulnerable to change.	appropriate in the delivery of measures be
• There is currently no reference to the historic	significantly more detailed.
environment in relation to peat restoration. We	
know that peatlands are very important in	Chalk streams are a priority in our WRMP
relation to archaeological preservation. It is	as they are most directly related to our
important to safeguard preservation of archaic	current abstractions, and the reason for
peat during restoration works. You could add	making sustainability reductions to our
that healthy peatlands are also beneficial for	licences. We consider potential change to
archaeology See our guidance Peatlands and	both natural and historic sensitive
--	--
the Historic Environment and the government's	environments in our ontions assessments
England Peat Action Plan.	as required. For the WRMP this is a
Whilst we appreciate the investigative costs.	desktop exercise using available
there is no mention for example of the public	information.
benefit new discoveries could have. There is the	
potential to highlight the opportunity for	Peatland restoration is not considered in
Cambridge Water to champion and protect our	our WRMP as none of the options
heritage and provide public access/knowledge	developed, or activities included, are in
to our past.	peatland areas, with the exception of the
 Environmental Destination – we want to 	FENS reservoir which is being promoted
encourage you to adopt a wider definition of the	through the separate SRO process, in
environment to include the historic	which peatlands are being considered.
environment as well as the natural	
environment.	At this point in planning, there is no
• Excavations can release a lot of carbon. Early	indication that the options considered in
engagement with Historic England and well	the plan would reveal new discoveries as
researched Desk Based Assessments could help	options aim to avoid impact to historical
to avoid archaeologically sensitive areas and	environment. However, if any discoveries
thereby help you to reach your environmental	were made we would submit to the
targets.	appropriate agency.
	The definition of environmental
	destination in the WRMP context is set by
	the National Framework for Water
	Resources as set out by Government,
	Water UK and the National Infrastructure
	Commission (NIC). This is consistent
	criteria set out for all water companies
	and supported by the EA.
	We would consult with Historic England
	along with other agencies as any proposals
	develop to detailed desk study and
	construction stages
The Plan should also include a few paragraphs	We have included a new section, 11.9.5, in
summarising why the historic environment is important	the revised draft plan that outlines this.
in the context of water resource planning and	
management, what steps have been taken so far to	
consider the historic environment and how proposals	
will need to take the historic environment into account	
going forward.	
We would recommend that the following Ulstania	
we would recommend that the following Historic	
England documents are referred to:	

Fluck, H., and Holyoak, V. (2017) Ecosystem Services, Natural Capital and the Historic Environment. Historic England Research Department Report No. 19/2017 (https://historicengland.org.uk/research/results/reports /19-2017). Historic England (2020) Heritage Counts: Heritage and the Environment (https://historicengland.org.uk/research/heritage- counts/heritage-and-onvironment/)	
Historic England has also produced a technical advice note in relation to <u>Lakes and Water Features Historic</u> <u>England</u> which you may also find useful.	
We would greatly appreciate more clarity about the location of proposals where they are known, so that we, and indeed all parties, can consider the potential impacts of proposed development.	We have since shared this information with Historic England with certain caveats relating to security as per Security and Emergency Measures Direction (SEMD) legislation.
Supporting the proposed allocations needs to be a heritage impact assessment, at a level of detail proportionate to the proposal and local environment. The National Policy Statement for Water Resources Infrastructure (2023) states at Paragraph 2.5.7 that "Any option included in a final WRMP will need to consider feasibility and reliability as well as taking account of potential environmental and social impacts". We have yet to see evidence that would meet the above requirements relating to the historic environment. We cover this point in more detail in our letter.	The options considered in our final plan include heritage impact assessments, at a high level in the initial screening and SEA process
Finally, on page 10 for the bullet point relating to the Historic Buildings and Monuments Commission it might be helpful to put Historic England in brackets for clarity.	This has been amended in revised draft WRMP.
It is not until page 114 of the Plan in Table 40 that the selected supply options are identified. It is not entirely clear from this document what is being proposed and where. The final draft of the Plan should be much clearer in this regard. Clearer site addresses or search areas would be helpful. More detailed mapping would also be useful.	We have ensured that the revised draft plan outlines the final preferred plan, including the selected supply options, more clearly.
Paragraph 2.5.7 of the National Policy Statement for Water Resources Infrastructure (2023) states that 'Any option included in a final WRMP will need to consider feasibility and reliability as well as taking account of potential environmental and social impacts.' By extension, proposals included in the WRMP that are also	Options in our WRMP and those in the WRE regional plan have been subject to Environmental Impact Assessment. The WRE plan is non-statutory, therefore SEA does not fully apply, although the approach taken is aligned.

therefore in the WRE Plan should be subject to the same considerations.	
We are not aware of any heritage impact assessment work having been undertaken for the majority of the proposals set out in this plan. This is a concern and something we recommend is addressed. We would be happy to work with you to help support an impact assessment and provide expertise. It is important that a degree of heritage impact assessment is undertaken at Plan-making stage, (i.e.	All of our supply options are new, and therefore have been assessed at the appropriate scale, and would be developed further, including site selection and screening. Not all of the options locations are finalised and would be subject to review. We would welcome the support of Historic
now) in line with the advice in our site allocations document referenced above. Please ensure that there is sufficient heritage impact assessment and an appropriate evidence-based approach to inform the site selections including the selection of broad locations (e.g. for Water Re-use Plant and transfers etc.).	England when refining our options.
 a) CW24 – 57 Reservoir – River Cam Extraction and Treatment works. We understand that this embankment reservoir is proposed approximately 2km downstream of Milton WWTW. We understand that the Horningsea kilns scheduled monument is located within the area proposed for the reservoir embankment. We also note that the pipeline would intersect Fulbourn Hospital, a Conservation Area at Risk. As the SEA notes this permanent loss of a scheduled monument would lead to a major negative effect. We are not entirely certain about the status of this proposal as it appears in some parts of the report and not others. Greater clarity is needed in respect of this proposal in the final draft of the Plan. We are interested to know what alternative sites have been explored for this proposal. The loss of a scheduled monument is a significant concern to Historic England and this is the first we have seen of the proposal. We would welcome further engagement on this scheme. 	This option is in early development and if it remains in the preferred plan would be developed in further detail. The site proposed initially was selected as an engineering preference for the purposes of option assessment and comparison and has not been through a detailed site selection process. As the option develops a site selection screening exercise would be undertaken, we would welcome input from Historic England if the option is developed further.
 b) Fens Reservoir We understand that the Fens Reservoir is a joint partnership between Anglian Water and Cambridge Water. It is therefore not clear to us why this proposal has not been included in the WRMP 	The Fens reservoir EIA has been undertaken by WRE and for Anglian water in their WRMP, and not duplicated in our WRMP. The site selection process has been through a rigorous screening and Historic England would have been present for this. We regard the reservoir as a

To the south of the site lies the Chatteris Conservation Area, with numerous listed buildings including the grade I Church of St Peter and St Paul.	volumetric transfer within the WRMP, which identifies the need for the supply and have fully assessed the transfer pipeline options. We have ensured this is articulated more clearly in the revised draft WRMP document.
SEA Comments: The SEA is not particularly easy and clear to follow. Many of the schemes are just referred to as abbreviates and the locations are not always clear. This makes it difficult for us to verify the assessment, identify known risks and consider whether the appropriate heritage assets have been taken into account as part of the assessment.	In order to publish our assessment as widely as possible , some location information requires redacting due to SEMD. We will update Table 5.1 to include a more detailed description of the options.
In terms of historic environment assessment, it would appear to focus primarily on the potential impacts of the Milton WWTW and River Cam reservoir option. It does not seem to offer a full review of all the options/proposals being considered, any of which are also likely to have impacts on the settings of heritage assets, even if not direct impacts. P20 List of Plans should also include South Cambridgeshire Local Plan and Huntingdonshire Local Plan.	These 2 options were shown to have potential impacts on the historic environment in the cultural heritage criteria, whereas the remaining options screened and in the preferred plan did not. The individual SEA matrices assess each option in turn and provide further detail on the effects against SEA Objective 15; Cultural Heritage. The purpose of the Environmental Report is to provide an overview of these and assess the effects of the plan as a whole. The SEA matrices have been made available.
P27/28 We welcome the reference to water dependent heritage assets and archaeology that is sensitive to the water environment.	Local Plans are considered as per updated table 2.1.
P33 We welcome the Guide questions relating to heritage and water. However, it is unclear whether non- designated heritage assets will also be considered. Is the reference to Welsh language and culture relevant in this instance?	Non-designated heritage assets have been considered in the assessment and further detail is provided in the assessment framework in Appendix E: Definitions of significance. The reference to Welsh language comes from applying a methodology for assessment of Cambridge Water's WRMP that is consistent with South Staffs Water and Water Resources which includes Dŵr Cymru Welsh Water).

P39 The SEA recognizes that where routes etc. are uncertain this has made SEA assessment more difficult. The report states that where this has been the case the assessment reflects this uncertainty. However, in the case of cultural heritage we note that often a neutral effect is reported in the assessment tables rather than an uncertain effect which gives a misleading impression of likely impacts.	We will review our assessments in these cases and update where relevant to reflect the uncertainty in the assessment.
P49 Para 5 refers to option 51 on two occasions when we think it should read option 57.	The text has updated in the revised draft report – thank you for highlighting this.
P58 Table We are interested to know why Greywater recycling have scored as minor negative/unknown for heritage.	The full assessment is available in the SEA matrices. This was assessed as minor/unknown due to the potential to affect the significance of heritage assets during construction and due to the unknown location of the service reservoir. The option location provided to us to assess is an example location and therefore may be different when it comes to implementing.
P66 We are concerned that the cumulative score for SEA Objective 16 is assessed as having major negative significant effects. Whilst the commentary considers that many effects would be temporary, several would be permanent, e.g. loss of scheduled monument which is of considerable concern to Historic England. The significant negative effects identified, particularly for the WWTW and Horningsea reservoir should be addressed.	We have reviewed this with our environmental consultants and added further detail on this for the revised draft plan.
P72 6.6.7 We note the mitigation proposed for cultural heritage and landscape in this section. Fundamentally, it is important that proposals avoid harm in the first place. We would expect alternative options to be explored that seek to avoid harm in the first instance (not just for pipelines but for all proposals). Reference is made to enhancement which is welcomed. However, we suggest that examples of enhancement opportunities should be given in this section.	We have revised this text and included examples of enhancement opportunities where possible.
	We have included this for the updated appendix which will be published with the

Appendix B P6 Historic England also provided a consultation response to the SEA Scoping Report in 2022 (copy attached). Please include our response in Appendix B.	revised draft WRMP at the end of September 2023.
Appendix D P71 We note that Conservation Areas have not been included as designated heritage assets. The NPPF is clear that they are designated heritage assets and we would expect them to be considered in the SEA as such.	Conservation areas have been reviewed throughout the assessment but have not been omitted from the baseline section. This baseline was included in the SEA Scoping Report where HE had opportunity to provide comment on this. We will update this in the revised draft ER.
Appendix D P72 We welcome reference to Heritage at Risk and also to archaeology in the context of water.	
Overall, we are concerned by the lack of reference to the historic environment within the Plan; we observe generally a lack of suitable references to the historic environment in the Plan. Earlier in our response we explain why the historic environment is important in relation to water plans and have made recommendations on how the historic environment can be considered in the Plan in order to address these issues.	We have updated table 1 and section 3.3.2 and 6.11.1 to include the important links to the historic environment.
Paragraph 1.3, it would be useful to be consulted at the earliest opportunity in order to manage resources internally and to ensure that implications for the historic environment are considered at the outset.	We will ensure that Historic England is consulted as a key stakeholder throughout our plan development.
In relation to the SEA we have some concerns about the extent to which some of the projects have been assessed for historic environment impacts (with a neutral assessment rather than unknown for example), the lack of consideration of Conservation Areas which are considered designated heritage assets in policy terms, and lack of clarity in relation to non-designated heritage assets. More assessment is needed even at this early stage to inform decisions about site selection. Further analysis of impacts on heritage would be welcomed.	We will review assessments and update as necessary but we would like to draw attention to the assessment matrices. Conservation areas have been reviewed throughout the assessment but have not been omitted from the baseline section. This baseline was included in the SEA Scoping Report where HE had opportunity to provide comment on this. We will update this in the revised draft Environmental report.
We note that whilst the WRMP includes two water transfers, Table 6.1 of the SEA includes several other transfer options (75A and 75B). Please ensure consistency between these two documents.	The options being considered have been developed through the assessment process, and the SEA has been updated to reflect the revised draft preferred plan. It will be published at the same time at the end of September.

3.13 Hobsons Conduit Trust

Consultation Comment	Response
Therefore, turning to the draft WRMP the Trust	We appreciate your concern regarding the
welcomes the measures that are proposed:	level of abstraction reduction required
	from the chalk aquifers. However all water
 to reduce total leakage 	that is sourced from either rivers,
 to reduce household consumption to 110 litres per 	reservoirs or underground water sources
person per day (and to seek ways of reducing the	must have an abstraction licence. Fens
target consumption toward 90 I/ pppd for new	Reservoir will be supplied by rivers in the
developments. Eddington is the worked example in	area and therefore will also require
Cambridge).	various abstraction licences. Therefore it is
 to install smart meters for all customers by 2035 	not possible to cease all abstraction if we
- to reduce abstraction to a lower level <i>but not by the</i>	are to continue providing water supply.
proposed date of 2050. This is far too late, and simply	Through our proposed licence reductions
not good enough.	we are committed to sustainable
	abstraction levels that restore and protect
Damage to the environment caused by abstraction is	the environment now and in the future.
already serious, visible and increasing. 2050 should be	
the date by which all regular abstraction for public	
supply by CWC <i>ceases permanently.</i>	
Every possible effort must now be made to accelerate	We are progressing the Fens Reservoir and
the building and bringing into service of the Fens	Grafham Transfer at pace and believe that
Reservoir, along with further substantial similar or	these cannot be further accelerated at
networked alternatives to abstraction from the chalk	present due to their dependencies on
aquifer.	other schemes and planning orders and
	consents. The Gratham Transfer will only
	be available to us when the Grand Union
	Canal resource option is in place which
	allows Affinity Water to reduce its water
	transfer from Gratham Water. The Grand
	Union canal option is also progressing
	through RAPID to ensure delivery is
	accelerated.
	Fens Reservoir is also progressing through
	the earliest data we half a thread by
	the earliest date we believe the scheme
	can be delivered. However in the
	announcement from Department for
	Levelling Up, Housing and Communities, a
	view to identify now the Fens Reservoir
	could be accelerated is part of the remit of
	the new Water Scarcity group. This

	proposal it outlined here Long-term plan
	for housing - GOV.UK (www.gov.uk).
In the meantime, the WRMP looks to put back or	We are fully supportive of the abstraction
otherwise ease the restrictions on licenced abstraction	reductions proposed by the Environment
that the Environment Agency will impose from the end	Agency and are keen to deliver these as
of this decade. Whilst this removal of headroom is	soon as we are able. However to enable
undoubtedly necessary and welcome, the Trust cannot	these, we need alternative supply options
look favourably on a WRMP that tries to avoid taking	to be in place. The majority of these
measures such as accelerating more bulk trading/import	options rely on other water companies to
of water from Graffham Water by seeking latitude	support due to the fact our geology is
against the reductions that the Environment Agency is	nearly wholly chalk and therefore there
bringing in.	are very few options available to us in our
	existing supply area.
	Our draft plan outlined our option to take
	15 MI/d of water from Grafham Water in
	2030. This is the maximum amount of
	water Anglian Water have stated would be
	available and the date of 2030 is also
	dependent upon Anglian Water installing a
	new strategic main from Grafham to Rede
	which we can then connect to. Our plan
	selects all available water supply options –
	any timing is due to the development time
	associated with each option.
	Since the draft plan and updates
	undertaken by Anglian Water to their
	modelling and following feedback from
	the Environment Agency, this 15 MI/d of
	water is no longer available. Instead, we
	have worked with Anglian Water and
	Affinity Water to develop an alternative –
	this options means that Affinity Water
	would build a larger Grand Union Canal
	Scheme (bringing water down from the
	Midlands) which would allow them to
	reduce their current transfer from
	Grafham and enable water to be available
	for Cambridge Water. In this situation
	more water would be available and our
	revised draft WRMP proposes to take the
	maximum amount available of 25 MI/d
	However this scheme relies on the Grand
	Union Canal to be in place to free up this
	water, and the current timescale for this is
	2032.
Instead of trying to put off or swerve the inevitable	As stated previously, we are unable to
Cambridge Water should be using this WRMP to	stop all abstraction as any mechanism of

reconfirm its absolute commitment to stop all abstraction by 2050, and to take immediate measures that will allow it to maintain supply margins whilst fully observing the Environment Agency's reductions in available licenced volumes.	taking water from the environment, including reservoirs, need abstraction licences.
Whilst it is commendable that CWC proposes to raise awareness among its customers, as one of those myself I fail to recognise that enough has yet been done in this regard. Along with many residents I am astonished that TUBs have avoided by CWC. Introduction of such measures would reinforce awareness of the precarious water situation in a populace who are generally alert to concerns about the environment and related matters. CWC could and should be doing a lot more to convince customers to be frugal in their use of mains water.	Temporary Use Bans (TUBs) application and triggers are developed and detailed within the drought management plan rather than the WRMP. However we have committed to a review of our drought triggers and this will look at the frequency at which TUBs may be required as well as when these should be instigated. TUBs have a part to play in the reduction of demand. However, we know from 2022 from the companies that did use TUBs that reductions in demand are not sustained. We believe that we need to educate customers on the water resource situation and the critical link to the environment, and then support them to make sustained changes to their behaviours if we are truly to deliver the level of ongoing reduction we are targeting. This is the basis of our demand management plan, centred around universal metering, which will provide the data and information to support this activity.
In summary the Trust's view is that the targets being set for coming off the chalk-based supply are insufficiently ambitious in terms of both timing and volume. The much greater emphasis in this WRMP on environmental concerns is most welcome, but what is proposed in the WRMP in order to reduce CWC's over-reliance on abstraction from the chalk aquifer is, regrettably, far too little, much too late.	Our plan looks to reduce our abstraction from the chalk aquifers by over 50% by 2040. The abstraction licence caps have been determined by the Environment Agency, and we will be undertaking investigations between 2025 and 2030 to determine the scale of the further abstraction reductions required in order to meet the objectives in the Environment Agency's National Framework for Water Resources.

3.14 Marshall Group Property

Consultation Comment	Response
The draft Water Resources Management Plan (WRMP24) includes a housing growth forecast of 41,250, which appears to align with those provided by Greater Cambridge Shared Planning (GCSP) in 2020 (42,000). This suggests that the draft WRMP24 has not accounted for the updates to the Greater Cambridge Local Plan (GCLP) and therefore may not account for the development of Cambridge East.	Thank you for providing the detail. We have been working closely with Greater Cambridge Shared Planning since the submission of our draft plan and we have jointly agreed our new household and non-household property and population forecast. We are now confident our forecasts accurately represent the current local plan.
We believe water re-use by way of rain water harvesting (RWH) and grey water recycling (GWR) at a community or district scale should be a priority and should be offered by water, sewerage and NAV undertakers under application for adoption (and ultimately legislated under the Water Industry Act 1991) where these prove viable.	We strongly support the installation of RWH and GWR infrastructure into new developments. Our plan does include options to look at incentivising developers to deliver these schemes and we have liaised with several developers over recent months to discuss these proposals further. Currently we need to ensure that the balance of cost for this is balanced accordingly and we believe this does not wholly sit with a water company to fund. We also believe there is a key national role here, similar to initiatives such as solar panels and ground source heat pumps, where there is a benefit to a clear delivery scheme for new technology that delivers national benefits.
In addition, smaller and building integrated owner/tenant operated systems with individual pumps will likely require more energy and emit more CO2 in their operation than potable mains water. They also place a burden on the consumer/owner/tenant to operate these systems, which ultimately may not be maintained and may be removed thus wholly negating their benefit. Should the burden of water re-use infrastructure and their environmental benefit be on building occupiers or water undertakers?	These are indeed areas that need further development as these technologies develop. Currently water companies are responsible for all water assets outside of the property boundary with all pipework inside the property boundary the responsibility of the homeowner. Based on this current arrangement, water re-use infrastructure would be the responsibility of the homeowner. We are happy to be part of any national level discussions on how these
Non-potable water re-use systems (RWH/GWR) at a community or district level must be considered ahead of small standalone building integrated systems. Large scale developments and hybrid developments that might benefit from these	systems should work in the future. We are currently working closely with Defra, the Environment Agency and the Department for Housing, Levelling Up and Communities as we look to explore additional opportunities to address some of the water scarcity issues in

systems should be tested for techno-economic	Cambridge. Developers will also be involved in
viability upon application. An equitably apportioned	the new Water Scarcity group set up by the
contribution should then be derived and offered to	Government in order to feed in ideas and
large scale residential and mixed use or hybrid	options such as this.
developments. The community non-potable water	
re-use system would then be adopted by the	
incumbent water and sewerage undertaker(s) or via	
an embedded network operator under an Ofwat	
approved NAV appointment.	
Currently Thames Water offer 'rewards' to housing	We also offer developer incentives and are
developers in the guise of infrastructure charge	keen to keep developing this system further in
rebates: There is a very small rebate for reducing	the future. We will engage with developers in
PCC to 110 litres, with slightly improved rebates for	our area as we do this.
providing water re-use systems, and up to £1800 per	
dwelling for water neutrality. Following attendance	
at Thames Water's recent developer day, we	
understand the take-up of this 'environmental	
reward' is very poor, which is perfectly	
understandable given other commitments on	
developers, for example S106 contributions (soon to	
be replaced with the Infrastructure Levy),	
Biodiversity Net Gain of plus 10%, Part L of the	
Building Regulations and Future Homes Standard	
requiring the switch to building integrated or	
networked heat pumps and huge improvements to	
fabric, and new changes to Local Planning houses	
numbers (as well as changes to mortgage	
applications). A very small contribution to a very	
expensive RWH/GWR system may not be viable.	
The water neutrality hierarchy as illustrated above	Aquifer Recharge options are included in the
does not capture managed aquifer recharge (MAR)	Water Resources East regional plan.
via infiltrating Sustainable Drainage Systems (SuDS).	
MAR must be allowable in qualitative and	
quantitative terms where existing permeable	
surfaces are recovered and water directed back into	
groundwater resources rather than through	
positively drained sewerage infrastructure to	
watercourses or treatment works.	
If water and sewerage undertakers or Local	We are keen to work collaboratively with
Authorities or other appropriate bodies can develop	these sectors to help identify how retrofitting
a fully tested and commercially workable water	can deliver more of a role in managing water
efficiency retrofit (off-setting) model, then	demand.
developers would very likely consider contributing	
to this in support of full 'water neutrality'	
certification.	
There is a critical link between the delivery of the	We are working closely with WRE and Anglian
planned water supply infrastructure improvements	Water to progress the development of these

(i.e. new bulk supply transfers and reservoirs) and the ability to deliver the growth identified by GCSP in their Local Plan process, both in terms of employment growth and the delivery of new homes to support this. Without certainty or confidence in the timelines for delivery of the required water infrastructure improvements, reduced development targets may be necessary in the Local Plan and / or developers and other infrastructure providers may be forced delay planned developments which will impact on the growth of Greater Cambridge and the wider region. We therefore seek reassurance that all reasonable steps are being taken to prioritise the delivery of the cross connection from Anglian Water, and the proposed Fens Reservoir, and that we can take confidence in the published timelines for these.

key options. In addition, we're working with DHLUC, Defra, Greater Cambridge Shared Planning and the Environment Agency to ensure the growth outlined in the local plans can be delivered sustainably. Following the announcement by the Prime Minister and the Secretary of State for DLUHC, Michael Gove, on 23rd July, we are working collaboratively with all organisations involved in the new Water Scarcity group and welcome the joint approach to resolving the water scarcity challenges in Cambridge. As part of this announcement, there is a request to identify any potential opportunity to accelerate the Fens Reservoir, which we are fully supportive of.

3.15 Customer (MF)

Consultation Comment	Response
First of all, I want to say that publicity for this	Anglian Water and Cambridge Water are
Cambridge Water public consultation appears to	separate companies with separate operating
have been non-existent: I only found out about it	licences, and therefore are required to
political policy group that I'd joined. Checking back on a Google search of News items ref "Cambridge water WRMP consultation", there do not seem to	individual operating areas for clean water and focus on our individual supply and demand balances. Our consultation process is promoted on our
have been any at all; only one local news article from January about the previous Anglian Water consultation on their own WRMP. Which begs the question: why do both Anglian Water and Cambridge Water need to each have a WRMP, and each run separate public consultations about them?! Both consultations have been inadequately advertised, have not reached their customer bases, and are merely a cynical box-ticking exercise.	website and our social media accounts, as well as emailed out to stakeholder organisations. We also hold stakeholder engagement events where we shared the details of our plans and sought comments, questions and feedback. We will take on board your feedback and review whether there are opportunities to reach a wider customer base for future consultations.
As far as the plan itself goes, I want to express my utter dismay at the pathetic lack of ambition in terms of how much and how soon you are aiming to reduce demand for water from household customers. If your quoted average usage figure of	We collect data from household meters in the region to determine usage which accounts for 74% of customer usage. These meter readings give us exact usage levels from which we calculate the current consumption figures. For

140 l/p/d is really true, then there must be a huge number of households using way more water than is needed for reasonable daily living requirements.	unmeasured households we use consumption meters that we have installed in our network. We know that metered customers use less
	water than unmetered customers which is a key reason for our plan to introduce universal metering for all.
All your talk about needing to replace fittings and appliances in order to possibly reach your own unambitious lower usage targets is just a big con to sell consumers more stuff that we don't need. Anyone who's currently using 120 l/p/d or more could easily reduce their usage just through simple changes of habit, no need to change any devices; and they would all be strongly incentivised to do it if their metered rate went up drastically above a perfectly reasonable 'daily living' allowance such as say 80 l/p/d. Instead of sending those shiny leaflets to all your customers asking them to save a few litres, if you just collect one extra data item for each household – how many people live there – then you could usefully present all your metered bills showing exactly what their actual daily usage has been. (Initially you could make a sensible guess as to what that 'number in household' data is for each customer, based on say their rateable value; then let customers update it as needed.)	As Cambridge Water, we do not sell any fittings or appliances. Through our Get Water Fit offering, customers can request free water saving devices to install in their homes, such as water efficient shower heads and flow regulators. We calculate an average household occupancy based on the number of properties and the total population in our region, but appreciate that this does not give individual household level information. Whilst we could look to collate data for each household, customers would have to be willing to share this data and keeping it up to date as people move means that it is likely to quickly be out of date. However we do agree that we could improve the information provided on our bills to help make it clearer for customers to understand their usage, and we are working on improving this.
I strongly support and urge you to introduce universal metering, and I think this should be done urgently without any delay or debate. The new trend for 'smart' meters is a diversionary tactic which just serves to delay the metering rollout; don't worry about smart meters, just get on with ensuring universal coverage of 'dumb' meters, so that all customers are paying for what they use. I can't see any reason why you cannot roll out meters to your remaining 9% of un-metered customers by say the end of 2024 at the very latest? Obviously, there would need to be concessions on bills for those with medical conditions who need lots of water, but we really have to make sure that people who needlessly use excessive amounts of water are paying for it. To that end, I think that as well as eliminating the flat fee [i.e. un-metered] option, you must move away from the uniform rate type, and instead adopt either an increasing block rate, or a	We currently have approximately 26% of our customers that are unmetered. We are able to introduce compulsory metering provided we have customer support for this. Our customer engagement that we have undertaken for this WRMP has shown that we do have support, but that customers are worried about the financial impact this may have and want assurance that larger families or those with medical needs that increase water usage are not penalised. Therefore it is important that we work with the remaining customers to understand these impacts and ensure we put the right support mechanisms in place. We sought funding from Defra to accelerate our metering programme and were successful in this bid, and so are looking to now progress with this. Currently we are not able to charge customers on our tariff basis – this is due to the regulatory charging regimes set out by our

water budget based rate which increases with usage (that type may be more flexible to allow for those with medical needs etc.).	economic regulator Ofwat. However, we are proposing a trial that we will undertake in 2024 to help identify how such a scheme might work and the benefits. We will look to incentivise customers to use less water by reducing charges for lower usage. Our plan then looks to roll this out across our whole customer base in 2035 once we have smart meters across all of our customers, assuming Ofwat make the changes required to the charging regime to enable this.
I fear that there is no genuine drive within Cambridge Water or Anglian Water to reduce water usage, because why would you want that when you are fundamentally a profit-seeking company, whose only goal is to grow your business by selling more and more of your sole product in order to make your various, mostly foreign owners richer. There will never be a worthwhile Water Resources Management Plan that actually works to preserve this life-giving resource unless the whole industry is brought into public ownership and run for the benefit of the people and the planet.	Every 5 years we submit a business plan to Ofwat outlining all of the activity we propose to undertake over the next 5 year period and the costs for that work. It is this plan that determines the cost of the bills and so these are determined in advance. This process determines the maximum revenue that we can collect from customers bills, and therefore higher water usage does lead to higher profits. Saving water is in the interest of everyone as we look to protect and safeguard both our environment and our future water supplies.

3.16 MOSL

Consultation Comment	Response
Despite Defra's guidance to consider the NHH market in	In our draft WRMP we included plans to
companies 'best value' plans, several WRMPs make	reduce non-household consumption by
minimal reference to the market in the main document.	9%, aligned with the Environment Act
In some cases, important NHH information is found only	target. We proposed to deliver this
as part of the appendices. Considering that the NHH	through the implementation of enhanced
market accounts for 30 per cent of water consumed in	meter technology throughout our whole
England, it is essential that key points are included in the	non-household population. In the revised
main document – not only as business customers have a	draft WRMP we have further enhanced
key role to play in supporting the industry meeting its	our options in this area to support this
demand reduction targets, but also because NHH	reduction and achieve 15% reduction by
customers' awareness of water security challenges	2050. This is detailed in section 10.1.3,
remains low.	where we demonstrate how our activities
	will deliver reductions greater than these
	targets.
Just one per cent of NHH customers use half of the	Our WRMP proposes to fit enhanced
water in the market (three	meter technology to all non-household

per cent use nearer 70 per cent – or 20 per cent of all consumption). Just 11,000 large meters and 152,000 medium-sized meters account for 72 per cent of consumption in the market. This represents a significant opportunity for water companies to address a large proportion of the market's water usage through a targeted programme of smart meter replacements or upgrades (AMI, AMR, smart loggers, etc.).	customers. We have also worked with retailers to identify the highest consumers and propose to work with retailers to provide water efficiency reviews and leakage detection through AMP8 to these customers. We have prioritised these businesses due to the volume of water utilised and therefore we feel these provide the largest scope for water savings. We describe this in more detail in section 10.1.3.
Wholesalers that have rolled out smart meters to date have also identified around 25 per cent of the water being used by NHH customers is continuous flow – a large proportion of this could be leakage and/or wastage.	Our proposal looks at continuous flow and we will look to undertake a review of all of these customers in AMP8. This is specific learning from our engagement with Thames Water who saw success in this area in their work on this in AMP7.
I would like to remind you of the research MOSL commissioned from Artesia Consulting in 2022, which established a strong business case for rolling out smart metering to NHH customers at the same time as domestic customers. It also recommended companies without large-scale meter investment programmes would benefit from replacing or upgrading selected NHH customers' meters, particularly the largest customers and/or where businesses are in close proximity.	We worked with Artesia in the development of our NHH options for our draft WRMP and have included the enhanced metering technology for all NHH as one of these options using the benefits identified in their report for MOSL delivered in 2022. In our draft plan, this option is selected as one of our preferred options. In our draft WRMP we proposed to undertake installation of enhanced meter technology to all our non-household customers between 2025 and 2035 which is aligned with our household customer universal metering programme. This is due to the efficiencies we believe can be realised by combining the programmes in this way and aligns with the conclusion of the Artesia report in 2022.
One million of the smaller NHH customers are virtually indistinguishable from households in terms of the amount of water they consume, how they use water (toilets, sinks, etc.) and meter sizes. We recommend that wholesalers treat the smallest NHH customers effectively as households when it comes to meter replacement programmes, water conservation advice and devices, in order to minimise operating costs and maximise the economies of scale.	Our plan proposes to fit smart metering technology across our whole customer base, both household and non-household, between 2025 and 2035. We also believe that by aligning these two programmes we will achieve efficiencies and maximise the benefits of community communications and engagement as a result.

Greater use of the research (A Strategy for Enhancing	We will be working with retailers to
Metering Technology (mosl co.uk)) by MOSL and the	ensure that data visibility is readily
Metering Committee to determine the business case for	available for them and for NHH customers
NHH smart metering and the henefits of making meter	available for them and for with eastomers.
data available to retailers and sustemers	
Clarity on the number of smart maters you intend to	We have included the annual number of
clarity on the number of smart meters you intend to	we have included the annual number of
deploy in AlviP8 and beyond – visibility for retailers on	meters we intend to install, across both
when they will be rolled out and where will help avoid	domestic and non-nousehold properties,
duplication of effort.	In 11.1.3 and 11.1.4 of the document. We
	will develop the detailed rollout plan over
	the next 12 months and ensure we engage
	with both retailers and non-household
	customers to communicate this.
Where appropriate, cross-referencing the findings of	We have liaised with South East Water,
other water companies smart meter rollouts to support	who have undertaken a universal metering
smart meter proposals and the scale of water saving	rollout programme, to understand the
opportunities.	approach taken, the success and lessons
	learned in order to develop the most
	efficient rollout programme, including
	resources, customer engagement and
	delivery mechanisms.
	In addition, we have taken the evidence
	from Anglian Water and Thames Water
	who have undertaken extensive smart
	metering campaigns in AMP7. They have
	produced detailed analysis to show the
	savings achieved through the installation
	of a smart meter, and in our revised draft
	plan we have adopted a figure of 13%
	hased on the Thames Water findings
Explanation of how water efficiency services would be	We will look to prioritise our support to
offered to different categories of NHH customers	the highest water users initially including
multi site industrial sustemers, commercial (offices at	a review of continuous flow users. We
multi-site, industrial customers, commercial/offices etc.	a review of continuous now users. We
	believe this will enable to us to identify
	the largest savings first. As the programme
	progresses, we will move to medium
	users.
	Many of our large multi-site customers
	have sustainability leads who have a
	strong focus on energy and water and
	therefore we will work with these teams
	to provide advice and support. In reality,
	there may be few gains to be had here,
	and we will focus on large single site users
	who may not have the internal support for
	this activity already.

	We are proposing a programme of household water efficiency audits and will adopt the same approach for small non household customers in the same area where appropriate e.g. hairdressers, shops etc. As with the metering rollout, we believe there are efficiencies to be recognised by combining these NHH customers with the local HH customers.
Explanation of how you plan to work with retailers collaboratively to engage with customers to reduce water consumption and carry out water efficiency interventions.	We have undertaken a club project with other water companies including Anglian Water, during the development of the draft WRMP where we have engaged with retailers to understand how best to work together to achieve these water efficiency objectives. This includes exploring incentive mechanisms, and we are looking to continue building on this work throughout the rest of AMP7. We also include more detail on our plans in the updated section 11.1.3 of our revised draft WRMP.
Exploration of how you plan to work with retailers to avoid denial of PR24 outperformance payments – e.g., a pain/gain sharing mechanism or incentives for retailer water efficiency offerings.	We have undertaken a club project with other water companies including Anglian Water, during the development of the draft WRMP where we have engaged with retailers to understand how best to work together to achieve these water efficiency objectives. This includes exploring incentive mechanisms, and we are looking to continue building on this work throughout the rest of AMP7.
Ensuring references to 'customers' are clear, in terms of whether you are referring to households, NHHs or all customers.	We have reviewed our plan narrative and made any necessary clarifications where we believed it may be unclear as the customer group.
A clear statement regarding the recognition of the size and importance of the NHH market and the role it plays in delivering your WRMP, reducing water demand and wastage.	We have included a paragraph in section 11.1.4 which supports this point by providing detail around the scale of our non-household market, the challenges and the opportunities for water demand reduction and the key role this plays in our WRMP.
Reference to Defra's nine per cent water reduction target for the NHH market by 2038 and your detailed plans for achieving this target.	We have included more detail in section 11.1 in the revised draft WRMP which details the Environment Act targets and

	how our WRMP aligns to the delivery of
	these. Section 11.1.4 provides the detail as
	to how we will achieve the 9% non-
	household consumption reduction target.
In the final plan, MOSL would like to see water	In developing our non-household
companies include: a country-wide approach to demand	consumption reduction plan, we have
reduction, regardless of whether water company	liaised with other water companies in
regions are designated as being 'water stressed' or not,	Water Resources East in order to agree a
recognising all areas have local demand challenges.	common approach. Section 11.1.4 details
	the Retailer engagement club project that
	we undertook with the other WRE
	companies to identify the best
	mechanisms to reduce water efficiency
	and how best to engage with retailers and
	non-householders in order to deliver our
	plan. We believe this is important so that
	Retailers can expect a consistent approach
	from the various Wholesalers with whom
	they work. This will lead to the most
	efficient way of engaging and operating
	with both retailers and non-household
	customers in order to deliver the
	maximum benefits.
	As part of this work, we have also spoken
	to other water companies who are already
	proactive in this area e.g. Thames Water,
	in order to identify best practice and
	lessons learned, as well as clarify the costs
	of activities and the benefits delivered.
	We are also supportive of the proposed
	"ARID" group, which would look to
	replicate the "RAPID" organisation for
	demand management focus. We believe
	that this focus and support will enable the
	delivery of the activities identified across
	water company WRMPs, as well as identify
	new opportunities.

3.17 National Farmers Union (NFU)

Consultation Comment	Response
Q3. Do you support our preferred plan to install smart	We currently have approximately 26% of
meters for all customers by 2035?	our customers that are unmetered. We
The NFU is not in a position to agree or disagree but	are able to introduce compulsory metering
welcomes further conversations. It is important that	provided we have customer support for

the messaging around compulsory metering is clear and	this. Our customer engagement that we
concise and outlines the remit for the metering	have undertaken for this WRMP has
and the benefits to the customer. It is essential that	shown that we do have support, but that
there are robust data security and data governance	customers are worried about the financial
mechanisms to ensure that data are used only with the	impact this may have and want assurance
consent of those who supply it. Any large-scale	that larger families or those with medical
data should be aggregated and anonymised to protect	needs that increase water usage are not
customers.	penalised. Therefore it is important that
The NFU asks that the messaging encompasses best	we work with the remaining customers to
practice use of water and particularly looks at an	understand these impacts and ensure we
integrated approach that supports the multi-sector	put the right support mechanisms in place.
approach which can be used in times of	We believe this data will enable us to
stressed/limited water availability e.g., droughts.	provide tailored information to customers
	about their water usage, and we will then
	be able to educate, advise and support
	them to make informed choices to make
	sustained changes to their water usage. In
	addition, we're proposing home visits to
	high consumption households to provide a
	more detailed review of usage and
	wastage and support through installation
	of water saving devices as well as
	identification of leakage.
	We are keen to work with the NFU and
	other sectors to produce some
	educational material that we can share
	with customers to explain the current
	water resource challenges and how these
	impact different sectors, particularly in
	drought situations, to help impress upon
	our customers the wider ranging need to
	reduce consumption
04. Do you support our environmental ambition to	We have a team of catchment advisors in
reduce abstraction from existing sources to a lower	the region who work with farmers to help
level (known as 'Business as Usual Plus') by 2050?	reduce fertiliser and pesticide use and run-
	off, as well as improve drainage and
In our view, meeting its responsibilities under the Water	chemical storage all to assist with water
Framework Directive should be Cambridge Water's top	quality. We will continue to expand this
priority. We would like to see continued activity on	over the coming years to deliver further
protecting the water environment. Our members are	benefits. We have been expanding our
very aware of the impacts of the water industry	work with farmers and landowners in our
activities on the water environment. Farmers are	catchment and are keen to work with the
continually asked to improve and change practices to	NEU to further expand our activities to
improve their environmental nerformance and reduce	henefit all
water impacts. We must all continue to work together at	
the catchment level to deliver continual improvements	All abstractors in the catchment are
are cateminent lever to deriver continuar improvements.	working together in order to achieve the

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It is also important that these joint improvements are communicated to local communities.	environmental destination in the most efficient way. Water Resources East play a key role in ensuring this process and we
Landowners and land managers can be key in providing catchment based and nature-based solutions and we	continue to work with them to deliver this.
urge Cambridge Water to engage the sector in	We will ensure your comments regarding
conversations and discussions for future work to ensure	the Fens Reservoir are fed into our project
This will enable an integrated approach to both land and	Partnership, the NFU have an opportunity
water management. A further question to address is,	to ensure the views of your members are
how can this be achieved through programmes such as	shared and incorporated into our
WINEP (Water Industry National Environment Programme)? The WINEP looks to deliver an integrated	planning.
approach to water management as well as	
environmental protection and benefits, as many of the	
options listed in Cambridge Water's WRMP states, and	
agriculture and horticulture sector as landowners and	
land managers. When reviewing the impact of land use	
and delivering environmental gains, a food impact	
mitigation measures considered.	
The NFU is concerned that the proposal for a phased	
burden and pressures of abstraction reduction onto	
agriculture and/or other sectors. The length of time	
required to implement solutions in the water sector is	
changes are notified. There must be a collaborative	
approach to supporting the environmental destination	
that builds resilience and sustainability in all industries (sectors	
Cambridge Water's WRMP includes a Strategic Resource	
resulting from environmental destination - "The Fens	
Reservoir will unlock many multi sector benefits for	
agriculture, habitat, amenity and recreation, and is an	
needs identified in our plan". Whilst the NFU	
acknowledges that the expansion of strategic water	
supply infrastructure is a vital to improving long-term,	
multi-sector water management in response to these	
supply infrastructure must be designed and built to	
deliver multi-sector benefits (specifically including the	

agriculture sector). As such, agriculture's water needs must be recognised as an explicit part of resource use plans to ensure access to water for food production, food security and elements associated with this, such as employment and economic value. In addition, the UK must acknowledge the global water scarcity challenge and the impacts of this on UK food security. When agricultural/food producing land is being lost, agriculture must benefit either directly or indirectly. For example, this could be through direct access to water from new reservoirs or access to water through open water transfers.

Water companies should be explicit in how Strategic Reservoir Options (SROs) can benefit water availability and this should be agreed in advance of construction to provide credibility and justification for the siting of the SROs. The potential availability of water for irrigation (either potable mains water or raw water) will help the agriculture sector where current abstraction licence constraints limit water availability, impacting on quality and yields of irrigated crops. Better consistency of supply and the future resilience of the agriculture sector are not only important factors in terms of future sector growth and sustainability, but also in achieving social and environmental outcomes.

Further, the NFU believes that both the design and implementation during construction of any SRO must be carried out in a way that minimises impact on land ownership and agricultural operations. This will mean proper and open consultation with landowners and land managers during the development process of SROs. This protects the needs of landowners and land managers and ensures that they are actively involved in the decision-making process at all stages; and that decision making process is timely and transparent.

To ensure the best outcome for everyone involved, the NFU asks that the following principles are applied to the design, development and construction of SROs.

• Compulsory purchase powers to take land should be used as a last resort and voluntary agreements should be reached where possible

• Developers should promptly pay enhanced compensation reflecting the dislocation, distress, income lost and loss of land as a result of a project

Habitat mitigation should be carried out to achieve 'no	
net loss' of biodiversity	
 Food production be mitigated to no net loss 	
 Land take should be kept to a minimum and only the 	
land needed for the scheme itself should be taken	
 Land should be taken on a temporary basis where 	
possible and returned to agricultural use at the end of	
construction.	
• The developer should communicate and consult at an	
early stage with affected landowners and occupiers in	
regard to the proposed and final design of projects	
 Any necessary accommodation works should be 	
incorporated within the design and implemented to	
minimise the impact on farm businesses	
 An aftercare programme for soils and field drainage 	
should be planned, funded and implemented	
 An 'Agricultural Liaison Officer' should be engaged at 	
an early stage from pre-construction works	
• The developer/contractor should show a duty of care	
at all times to claimants.	
Q5. Are there any areas you feel we should be	A WRMP traditionally focuses on the
considering which are not currently reflected in our	public water supply needs, as per the
plan?	planning guidelines. For this reason we
The NFU feels that a key element of the approach to the	now have Water Resources East in our
WRMP that is omitted is the multi-sector, collaborative	region to ensure that we are truly planning
work. If added, this would enhance the best value	for the whole water needs of our region,
	_
planning as options mentioned could involve the	incorporating all sectors, and this regional
planning as options mentioned could involve the agriculture and horticulture sectors as landowners and	incorporating all sectors, and this regional plan is where this multi-sector work is
planning as options mentioned could involve the agriculture and horticulture sectors as landowners and land managers to realise and maximise potential	incorporating all sectors, and this regional plan is where this multi-sector work is captured.
planning as options mentioned could involve the agriculture and horticulture sectors as landowners and land managers to realise and maximise potential opportunities such as those listed under the WINEP	incorporating all sectors, and this regional plan is where this multi-sector work is captured. However, we are happy to work with the
planning as options mentioned could involve the agriculture and horticulture sectors as landowners and land managers to realise and maximise potential opportunities such as those listed under the WINEP options. The WRMP states the best value planning	incorporating all sectors, and this regional plan is where this multi-sector work is captured. However, we are happy to work with the NFU to help deliver improvements in our
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with other organisations engaged at the catchment scale to reduce duplication of effort and improve the	
delivery on the ground. This will result in benefits and	
cost savings for farm businesses and for Cambridge	
Water.	

3.18 Natural England

Consultation Comment	Response
Natural England appears not to have received formal	We apologise for this – it seems our
notification of the consultation on the Cambridge Water	Natural England contact details were
dWRMP, which commenced on the 24 February. We were	out of date and we have now updated
made aware of the dWRMP consultation by the	this to ensure all future updates and
Environment Agency on 9 March 2023.	publications are sent to current and
	active email addresses.
Page 1 Para 4. Cambridge Water should be making strides	Plans for meeting our duty under NERC
toward ensuring that current and future water company	are explained separately, through our
activities are not at the detriment of protected species,	WINEP measures and Biodiversity
priority habitats and designated sites. As well as ensuring	performance commitment. Where
that condition of these sensitive environmental receptors is	applicable for the delivery of options
not worsened, public bodies have a duty under the NERC	we would include BNG for any
act 2006, as strengthened by the Environment Act 2021 to	construction activity as required.
"further the conservation and enhancement of	We have included details of our WINEP
biodiversity", including restoration and enhancing a species	in section 11.4 and 11.10 which we
population or habitat.	have expanded on for the revised draft
	WRMP.
Natural England would like to see Cambridge Water	
develop a plan which delivers on the above, and provides a	
secure, sustainable water supply to customers.	
Natural England considers Cambridge Water's dWRMP has	These sites are not impacted by any of
insufficient information to determine impacts on	the options assessed as part of our
designated sites, including Ouse Washes SAC/SPA/Ramsar	WRMP, hence these are not included in
and Fenland SAC. As submitted, the plan could have	our detailed assessments.
potential significant effects on Ouse Washes	For the Fens Reservoir, the EIA
SAC/SPA/Ramsar and Fenland SAC. Natural England	undertaken as part of this option
requires further information in order to determine the	development does assess these areas.
significance of these impacts and the scope for mitigation,	As this option is being developed
if any. The information required is set out in Annex 1.	outside of the WRMP it is not included
Without this information, Natural England may need to	in our documents in detail, but this can
object to the plan. Please include this information within	be found in the supporting
the plan and reconsult Natural England before it is	documentation for the RAPID
published.	submissions for the Fens Reservoir.
Notwithstanding the above, Natural England has serious	We are committed to the reduction of
concerns that Cambridge Water's abstractions, to meet	abstraction licences to protect priority

current demand, appears to be contributing to the deterioration in the condition of multiple water-dependent Sites of Special Scientific Interest (SSSI) and important	habitats and WFD designations. All SSSIs in our area have been assessed through Habitats Regulations in
priority habitats such as chalk streams. Aligned with the Environment Agency's concerns, we are not confident that	previous WINEP cycles with the EA and NE input, and recommendations
the company will be able to meet demand for water without risking further deterioration to these sites and	implemented following investigations into the impact of our abstractions. Our
supporting habitats, let alone achieve environmental improvement targets set out in the Government's	WRMP proposes to cap licences to prevent deterioration in line with the
Environmental Improvement Plan (published 31st January 2023) and Defra 25 Year Environment Plan. For these	legislative requirements including the targets in the Environment Act and the
reasons Natural England is already objecting to planning applications for major development across Greater	longer term Environmental Destination needs as outlines in the Environment
Cambridge.	Agency's National Framework for Water Resources. Our demand
	the WRMP will ensure that demand
	beyond until we have alternative more sustainable water sources in place.
	Details are included in section 1.7 as appropriate, and our WINEP is
	described in section 11.4 and 11.10
	Our application of no deterioration and the licence capping resulting from this is described in section 3.3.2.
Where the Plan relies only upon the Environment Agency's minimum requirement of "Business as Usual plus" (BAU+), Water Companies must ensure that their WRMP includes a pathway to meet all their environmental assessment and nature recovery obligations in line with duties and timetables in Annex 2.	We have planned to BAU+ as per the guidance and as agreed across all companies in Water Resources East. We have included a pathway that looks at meeting the enhanced scenario is section 11.8 of the revised draft WRMP.
	Please note that the WINEP includes wider measures of improvement that are not included in a WRMP. Some of these are outlined in the WINPE sections of our plan.
The Environmental Destination as defined in the Regional Plan modelling that has been relied upon by Cambridge	The Environmental Destination (ED)
Water does not yet go far enough, fast enough nor it is yet	provides the best currently available
prioritised in the correct locations to meet the nature	determination of required abstraction
important given the number of wetland SSSIs within South	this has been used in the WRMP and is

Cambridgeshire, which are mostly groundwater dependent.	consistent with other companies in the
Natural England would like to work with WRE and	region. Our AMP8 WINEP includes
Cambridge Water to refine and prioritise the Environmental	further investigations into ED which will
Destination to meet the nature recovery obligations set out	be used to refine the reductions
in Annex 2 in light of the struggling water-dependent	required. We have also included
habitats within the region.	measures in the WINEP to work with
	NE to monitor several wetlands of
We would like to remind Cambridge Water that although	concern.
Environmental Destination has a final delivery date of 2050	
there are other obligations that must be met before then	We have included the relevant
(see Annex 2 for more information):	statutory targets from documents in
a. Environment Act targets halt species decline by 2030 and	Annex 2 within our WRMP
increase species by >10% by 2042)	
b. The "30 by 30" commitment	Details are included in section 1.7 as
c. 25 Year Environment Plan target for 75% of SSSI to be in	appropriate, and WINEP is described in
Favourable Condition by 2042 with mechanisms in place to	section 11.4 and 11.10.
achieve favourable condition by 2028	
Cambridge Water have included sustainability changes	We are committed to the reduction of
following WRMP19 and WINEP investigations. These are	abstraction licences to protect priority
due to be implemented in AMP8 from 2025 and are based	habitats and WFD designations. All
on "methodology of determining the no deterioration	SSSIs in our area have been assessed
baseline for WFD." Whilst this is positive from a WFD	through Habitats Regulations in
perspective, and the water company have included these	previous WINEP cycles with the EA and
reductions in their baseline deployable output, it is not	NE input, and recommendations
clear whether these reductions will deliver on obligations	implemented following investigations
listed in Annex 2 regarding SSSIs (plus protected species	into the impact of our abstractions. Our
and priority habitat).	WRMP proposes to cap licences to
There is potential for some reductions to result in	prevent deterioration in line with the
protected site/ species and priority habitat	legislative requirements including the
improvements, though the primary aim will be to	targets in the Environment Act and
meet WFD no deterioration obligations. However,	other legislation.
as investigations have not focused on SSSI/ habitat/	
species requirements, it is not clear what the	Our application of no deterioration,
Impact will be and whether changes will support	and the resulting licence caps, is
Improvement of these sensitive environmental	described in section 3.3.2 of the plan.
features. Additionally, it is not clear whether the	
reductions proposed will meet timelines outlined in	
Annex 2, relating to species decline.	DD24 Investigations will be used to
It is not clear whether the potential outcomes of	PR24 Investigations will be used to
PR24 investigations (e.g., requirement for further	MOMPACE We have included the DALL
abstraction reductions) have been considered	WRWP29. We have included the BAU+
within the plan. In particular, from further	reductions in our draft MOMD and this
investigations into retaining water levels on Alder	is included in our data tables. This is a
Carr and Wilbranam Fen SSSIs.	is included in our data tables. This is a
Going forward, Natural England has additional	Key univer for the Fens Reservoir for
concerns regarding SSSIs not yet contained within	camphuge water, we have included

PR24 for investigation. We welcome the opportunity to engage with the water company on outstanding concerns and finding a way to resolve information gaps which are preventing the implementation of sustainability reductions.	the Alder Carr and Wilbraham Fen in these investigations. All SSSIs in our area have been assessed through Habitats Regulations in previous WINEP cycles however we will continue to work with NE and the EA to on concerns relating to our WRMP proposals and SSSI sites, including identification of abstraction reductions where applicable.
[On uncertainties in the HRA and SEA] Cambridge Water need to demonstrate at a plan level how they are going to comply with legislation in broad terms. This should include biodiversity net gain assessments. Impacts on SSSIs should be assessed against the monitoring specification and interest features of the site for any relevant impacts, consideration is also needed of the priority habitats the plan could affect and the species these habitats could support. For existing options that are going to supply growth a more tailored assessment of the specific existing concerns would be beneficial. For habitats regulations sites they must meet the relevant tests of the legislation. Conclusions should be backed up by the best available evidence and if there is still uncertainty, alternative options should be proposed.	Our plan complies with the required legislation as set out in section 1.9 and Appendices P. 10% BNG has been sought for all supply side options in the preferred plan. Our supply options have been assessed in accordance with the SEA methodology and screening approach. SSSI impacts are included in the assessment matrices where applicable. The SEA methodology was undertaken in accordance with the methodology developed at the Scoping Stage which included the statutory consultation process. This work is on existing supply arrangements is usually outside the remit of the SEA.
Critically, the uncertainty of transfer and demand options within the dWRMP impacts the ability for Cambridge Water to deliver the license reductions that are/ may be required to prevent further deterioration of the associated groundwater bodies and priority habitats that these support (such as chalk streams and wetlands). Where there is uncertainty in the deliverability of demand (and supply) options, alternative schemes should be considered.	We are confident in our ability to meet the required licence reductions to prevent deterioration and have committed to no increase in demand through demand management. Our proposals include uncertainty in delivery of the options, both demand and supply, and allowances are also made in headroom for uncertainty. In addition, we have included a new section in the revised draft WRMP, section 11.3, which outlines how we will deliver our demand management proposals, including monitoring, reporting and resolution of issues.

In relation to dealing with uncertainty in the plan,	
Cambridge Water have said it may be acceptable to include	10% BNG has been sought for all supply
preferred programme options with residual uncertainties	side options in the preferred plan.
provided that (amongst other things) "the option is not	
required within the first five years of the plan period, so	Our supply options have been assessed
allowing time for additional investigations to be	in accordance with the SEA
completed". Natural England's view is that water	methodology and screening approach,
companies implementing an option before 2035 need to	SSSI impacts are included in the
have a plan level assessment that meets the tests before	assessment matrices where applicable.
publication. Water companies need to demonstrate at a	
plan level how they are going to comply with legislation in	The SEA methodology was undertaken
broad terms, this should include biodiversity net gain	in accordance with the methodology
assessments. SSSIs should be assessed against the	developed at the Scoping Stage which
monitoring specification and interest features of the site for	included the statutory consultation
any relevant impacts; consideration is also needed of the	process. This work is on existing supply
priority habitats the plan could affect and the species these	arrangements is usually outside the
habitats could support. For existing options that are going	remit of the SEA.
to supply growth a more tailored assessment of the specific	
existing concerns would be beneficial. For Habitats sites	We would welcome NE input into any
they must meet the relevant tests of the Habitats	alternative options that may be
, Regulations. Conclusions should be backed up by the best	considered in future plans.
available evidence and if there is still uncertainty.	
alternative options should be proposed. Natural England	
would welcome discussion on this point, and work with	
Cambridge Water to agree a practical way forward where	
the aforementioned may not be possible, for example	
inclusion of a clear plan and commitment of what work will	
be done and when conclusions will be reached. It should be	
noted that the company should recognise the risk that this	
carries around the HRA outcome of the options concerned.	
Where there have been material changes to existing	There have been no material changes
licenses since the HRA was initially completed, the HRA	for the HRA to consider.
should include consideration of existing consents.	
1.1.2.1 Options 01A and B In the appropriate assessment,	These options are no longer considered
Cambridge Water notes that there is uncertainty of the	in our preferred plan from 2029-30.
impacts during the operation of the borehole, due to a lack	There would be further monitoring and
of understanding of the hydrological regime and also the	assessment undertaken to develop the
interaction between the SAC feature and local surroundings	options to understand any impacts on
(e.g., the passability of weirs). This uncertainty makes it	the hydrological regime as options are
difficult to conclude no Adverse Effect on Integrity (AEOI) at	developed in more detail.
this stage:	
o With the first year of use being 2029-30, this must be	
addressed before the final plan is published.	
Natural England would welcome exploration of the impact	If the more developed option indicates
of decreased freshwater input and exacerbation of nutrient	any impacts on flows, then water

issues from diffuse pollution already present within the river and stream habitats.	quality dilution effects would be considered.
Natural England welcomes the consideration of using the same pipeline for supply options 01A, 01B, 73A, 75Aiii, 75Biii and 75Ciii, in addition to avoiding fish spawning season, to mitigate the heightened risks posed by construction for aforementioned options occurring concurrently. However, greater detail on what this means in practice in terms of "communication strategies" and also whether there are greater impacts from a combined pipeline would be welcome.	These will be addressed in the updated HRA in Appendices P which will be published at the same time as the revised draft WRMP at the end of September 2023.
1.1.3 Page 8 Para 2. It is not clear why the following Ouse Washes Ramsar features have not been included in the appropriate assessment, given the above pathways: o Extensive areas of seasonally-flooding washland o Nationally scarce plants	No pathways for these particular features were identified to be carried forward into Appropriate assessment This is explained in Section 6 HRA report.
1.1.3.1 Options 01A and B Due to the limited information regarding water abstraction requirement associated with options 01A and 01B, the hydrological impact of this and also the distribution of qualifying features (including functionally linked habitat) it is inappropriate to conclude no AEOI at this stage. This should be addressed before the final plan is published.	These options are no longer considered in our preferred plan before 2035. There would be further monitoring and assessment undertaken to develop the options to understand any impacts on the hydrological regime as options are developed in more detail.
1.1.3.2Option 73A Whilst positive that mitigation has been included to reduce the disturbance to SPA/ Ramsar features, Natural England recommend considering the ambient levels of noise on site and the increased noise above this caused by construction, rather than just considering the noise caused by Cambridge Water's activities in isolation.	Our environmental consultants will update to reflect proposed approach to noise assessment in the future project- level HRA. They will also incorporate information from the Gate 2 Informal Habitats Regulations Assessment where relevant.
1.1.3.3 The HRA in-combination assessment has not considered the cumulative effects of this plan, and existing supply options, on the River Cam / Ely Ouse system - which is integral to the functioning of Ouse Washes SPA/ Ramsar. This potential impact pathway is particularly important when looking at the Best Value Plan (BVP) as a whole, where there is reliance on existing abstractions to meet growth needs and the potential for this to increase if the demand management is not realised. An in-combination/ cumulative assessment should include consideration of the potential for abstraction to reduce flows in the River Cam / Ely Ouse system. Reduced flows at the point where the Ely Ouse discharges into the River Great Ouse around Denver	The existing consents regime forms part of the baseline for use in the WRMP modelling. As stated in the methodology (Section 2.6.2) the assumption for the WRMP is that any licence amendments required by the EA's Review of Consents process or WFD have been factored into the supply-deficit calculations, and the EA will have confirmed that these are valid for the planning period when the WRMP modelling is undertaken. Therefore, the existing consents regime

Sluice, downstream of the Ouse Washes SPA/ Ramsar site, can increase silt deposition and build-up of sediments on the river bed. This causes the Hundred Foot River to back up, slowing the release of spring floodwaters from the Ouse Washes during the critical bird nesting season. We understand that the Environment Agency have been investigating this issue as their operation of Denver Sluice has a major influence on river levels in the Cam/Ely Ouse system, although we're unclear on any outcomes at this stage. This issue is likely to require consideration of the combined / cumulative effects of all ground and surface water abstractions across the entire catchment.	(taking into account any required sustainability reductions) is effectively a 'no adverse effect' baseline and that options that operate within the terms of existing licences will have 'no adverse effect'. No options have been flagged to Cambridge Water by the Environment Agency or Natural England. Previous work was done for sources potentially affecting Breckland SPA but this work has been completed, and has no overlap with sites being considered in WRMP. Cambridge Water does not have any drought permits within its Drought Plan therefore no in- combination assessment required.
 1.1.4.1 No LSE has been concluded at the screening stage on Fenland SAC. This is due to no new abstraction licence being required for the option and the abstraction of water being managed through the Hands-Off Flow arrangement. o The reasoning here does not resolve the potential impacts of the construction on the SAC feature (spined loach, Cobitis taenia). Moreover, other qualifying features which could be impacted have not been noted, e.g. Great Crested Newt. The SAC overlaps with Woodwalton Fen Ramsar, which is not mentioned as part of the screening. o Wicken Fen Ramsar - the assessment does not note the invertebrate assemblage. o Cambridge Water should consider whether the existing license's HRA is still appropriate. If there has been a material change since the completion of the license, this must be revisited. 	Fenland SAC is c.15km to the north of the proposed boreholes and therefore wasn't included in the screening because no impact pathways over this distance were identified. The SACO for Fenland SAC also concludes that spined loach are unlikely to be present at Woodwalton Fen, therefore again no impact pathway identified. Wicken Fen Ramsar is similarly c.15km to the east, and therefore again no impact pathways identified. The potential for impacts to spined loach using offsite functionally linked habitat in the River Great Ouse will be revisited (although not specifically cited in the SACO for achieving Favourable Conservation Status).
 1.1.4.2 Page 9 Para 3. It is not clear why the following Fenland SAC features have not been included in the appropriate assessment, given the above pathways: o Molinia meadows on calcareous, peaty or clayey-silt- laden soils (Molinion caeruleae) o Calcareous fens with Cladium mariscus and species of the Caricion davallianae o Great crested newt Triturus cristatus Due to uncertainties regarding the distribution and movements of the spined loach, it is inappropriate to 	The HRA Stage 1 Screening (Appendix C) identified Fenland SAC as being c.7.9km from the construction site, and on this basis, and lack of hydrological connectivity, concluded no LSEs on the GCN and habitat qualifying features. Spined loach were screened in, due to potential presence on the River Cam, and therefore taken forward to the Stage 2 Appropriate Assessment.

conclude no AEOI at this stage. This should be addressed before the final plan is published.	Our environmental consultants, Ricardo, will approach Natural England to understand the pathways they consider affect all qualifying features so this can be resolved for the final plan.
 1.1.5 Page 9 Para 4. Where there are Cambridge Water supply options which impact overlapping sites to the scheme, the water company should include the construction and operation impacts of the reservoir. It is understood that there are likely significant impacts to Ouse Washes SAC, SPA and Ramsar as a result of incombination effects between Cambridge Water supply options and preferred regional plan options. It is understood that no Appropriate Assessment work is available for options CAM7 or BCTTW125 in the draft WRE plan. An in-combination assessment must be included within the final plan. Cambridge Water should work with WRE to resolve this matter. Note, that without exploration into the impacts, it is 	We will incorporate information from the Fens Reservoir SRO Gate 2 Informal Habitats Regulations Assessment where relevant. However, as per the in-combination methodology set out in Section 2.5, where the Fens Reservoir SRO is concluding an AEoI, this will potentially require this scheme to go through the derogations, and therefore would not be considered in- combination with Cambridge Water's supply options.
inappropriate to conclude that "Construction Environmental Management Plans (CEMPs) can adequately address any in-combination effects".	
1.1.6 The potential for in-combination effects between Cambridge Water options 01A and 01B, and the Fens Reservoir SRO should be examined in Cambridge Water's WRMP, and not rely on this being conducted within the regional plan.	We will incorporate information from the Fens Reservoir SRO Gate 2 Informal Habitats Regulations Assessment where relevant. However, as per the in-combination methodology set out in Section 2.5, where the Fens Reservoir SRO is concluding an AEoI, this will potentially require this scheme to go
Within dWRMP, it is expected that resilience to drought is considered during the planning period. At this stage, it is likely that drought permits/ orders are/ will be included in future drought plans. Therefore, Cambridge Water should be able to identify the drought permits/ orders planned to	through the derogations, and therefore would not be considered in- combination with Cambridge Water's supply options.
be relied upon and assess potential impacts in-combination with the dWRMP supply options.	Cambridge Water does not have any drought permits within its Drought Plan therefore no in-combination assessment required.
1.1.7 Page 10 Para 3. No monitoring has been proposed for any of the supply options and associated impacts on Habitats Sites. It is essential that where mitigation is	The HRA is being undertaken at the strategic, plan-level, rather than project level where the requirements for

required, as identified within the Appropriate Assessment	monitoring programmes would be
in the HRA, monitoring is included to determine whether	better understood.
the mitigation measures are successful and whether	Where there is remaining uncertainty,
alternative measures need to be implemented.	around options we will identify a
	programme of works for the relevant
Moreover, where there are information gaps which have	options to address these data gaps.
led to uncertainty in the Appropriate Assessments,	
Cambridge Water should consider what data they need to	
collate and provide a timetable detailing when the	
uncertainties will be addressed. This is particularly	
important for supply options which will be used <2035	
Natural England's advice is that where there are known or	Our preferred plan does not propose
suspected environmental impacts, the SEA should assess	any material increase to existing
the Plan's reliance on existing abstractions to meet growth	abstractions. Growth is managed
needs and the potential for this to increase if the demand	through demand management. Existing
management is not realised. The environmental	licences are not considered as options
implications of this overarching strategy, including potential	and are therefore not assessed in the
for further deterioration in SSSI condition, needs to be	SEA for the plan.
assessed in detail through the SEA.	
The SEA includes inadequate consideration of the effects of	The SEA is undertaken at the strategic,
the dWRMP on natural environment features including	plan-level, rather than project level
Habitats sites, SSSIs, priority habitats, species of principal	where the requirements for monitoring
importance and landscapes that are likely to be affected by	programmes would be better
the preferred options in the plan and those in the	understood.
alternative pathway should the demand management	
measures not be realised at the rate relied upon in the	Where there is remaining uncertainty,
Plan. Note that any impacts upon these high value	around options we will identify a
receptors needs to also be correctly set as major adverse.	programme of works for the relevant
	options to address these data gaps.
	Only sites with a likely import will have
	been assessed
	been assessed.
The environmental assessments of the options in the plan	Assessments are at strategic, plan-
are brief and the report relies on scoping and screening	level, rather than project level suitable
tables. The scoping section should explain the potential	for comparison of the options and
effects for each preferred option.	identification of impact.
	Where there is remaining uncertainty,
	around options we will identify a
	programme of works for the relevant
	options to address these data gaps.
The monitoring plan needs to be revisited to include	
monitoring of the Plan's reliance on existing abstractions to	Our supply options have been assessed
meet growth needs and the potential for this to increase if	in accordance with the SEA
the demand management is not realised. The	methodology and screening approach,
environmental implications of this key Plan policy, including	

potential for further deterioration in SSSI condition, requires careful monitoring.	SSSI impacts are included in the assessment matrices where applicable. The SEA methodology was undertaken in accordance with the methodology developed at the Scoping Stage which included the statutory consultation process. This work is on existing supply arrangements is usually outside the remit of the SEA. This assesses the impact from new options not existing abstractions supplying current needs.
The SEA needs to include in combination and cumulative impact assessment.	This will be included in the revised assessments in Appendices P that will be submitted alongside the revised draft WRMP at the end of September 2023.
Consideration needs to be given to the NERC duty (as strengthened by the Environment Act 2021) to further the conservation objectives in the SEA – this will include restoration and maintenance of SSSI condition and other important habitats including chalk streams.	 10% BNG has been sought for all supply side options in the preferred plan. Our chalk stream restoration work forms part of our Water Industry National Environment Programme (WINEP). This is our programme of environmental improvement, where the WRMP focuses on water resource supply and demand. For the revised draft plan we have added more detail of our WINEP programme, and more specifically, our chalk stream river restoration programme and how it links into the National Chalk Stream Restoration Strategy. Our NERC commitments are included in our WINEP measures, which are detailed separate to WRMP. Details are included in section 1.7 as appropriate, and WINEP is described in section 11.4 and 11.10.
Timescales for improvements appear unlikely to meet the 2030 and 2042 targets for nature recovery habitats and	We propose to meet all of the Environment Act targets for water

species set out in the Government's Environmental Improvement Plan (published 31st January 2023), and those within the Environment Act 2021 (see Annex 2).	resources improvements. Other environmental targets would be included in the WINEP, where applicable, and agreed with the Environment Agency and Natural England. Details are included in section 1.7 as appropriate, and our WINEP is
Natural England is concerned that the Environmental Destination set out in the plan may not be sufficiently robust to ensure compliance with nature conservation obligations set out in Annex 2 of this letter. The company relies on the Regional Plan Environmental Destination within its plan to meet its environmental obligations; however, it must still satisfy itself that the company's environmental obligations set out in Annex 2 are met: • It should ensure that non-European SSSI rivers and wetland SSSIs and priority wetland habitats have been included in the Regional Plan Environmental Destination modelling. • Species and Environmental Improvement Plan (EIP) obligations should also be included within the Environmental Destination.	described in section 11.4 and 11.10. The environment destination work looks at abstraction reductions required to provide protection to the watercourses and environment with regards to climate change. As all abstraction is currently from chalk aquifers, all abstraction reductions we will undertake under any of the scenarios, including BAU+, will directly benefit chalk streams and SSSIs. We will refine the ED figures following WINEP investigations in AMP8. The approach is set out by the EA but we would welcome NE input into the assessments.
 WRMP's must include a pathway to meet the company's nature recovery obligations in line with duties and timetables in Annex 2. Natural England's advice is that Cambridge Water's dWRMP should be amended to clarify and demonstrate that it will meet these obligations. 	We have included more detail in sections 11.4 and 11.10 on WINEP and how we will meet our obligations.
1.2.2 Page 12 Para 2. The overarching strategy of the WRMP relies on the existing abstractions which are likely to increase within licence if the demand management measures are delayed or not deliverable. This poses a significant risk to the water-dependent sites that are already being potentially affected by the current level of abstraction. In the absence of more robust evidence to demonstrate the timely and effective delivery of demand management measures and details of alternative / contingency options we believe the dWRMP poses a significant risk to the availability of adequate supplies to meet future needs, without causing additional risk of harm to the designated sites that rely on the abstracted aquifer. This is a major concern for Natural England and we would expect to see an appropriate level of additional evidence to address these matters in the WRMP.	Demand Management measure that we have included in our plan are well researched and are phased accordingly so we are confident these will be met. There are also allowances made in the saving for uncertainty, along with headroom uncertainty for demand management options. We have included a new section in the revised draft WRMP, section 11.3, which outlines how we will deliver our demand management proposals, including monitoring and reporting.

Natural England's view is that the SEA is not sufficiently comprehensive and evidence based. The report is focused on assessing the effects of individual demand and supply options and has not considered the effects on SSSIs of the Plan's overarching reliance on existing abstractions to meet growth needs and the potential for this to increase if the demand management is not realised. The environmental implications of this key Plan strategy, including potential for further deterioration in SSSI condition, needs to be assessed in detail through the SEA.

We recommend that the SEA be amended to incorporate a dedicated section focused on assessing the effects of the dWRMP, including any likely changes in abstraction levels to meet planned growth, on groundwater dependent SSSIs. In addition to adhering to the EA capping programme timings for all sites, the SEA should include measures to restore and maintain SSSI condition.

Long term alternatives to drought options for SSSIs should be included in the SEA. As stated previously, in our view the current drought plan is likely to lead to additional stress on SSSIs during the summer months and this will be exacerbated by climate change. We therefore do not have confidence in the current drought measures outlined.

In our view, the improvements outlined are not sufficient to meet the 2030 and 2042 targets for habitats and species set out in the Environment Act 2021 and Government's Environmental Improvement Plan (published 31st January 2023) (see Annex 2). It is likely that the whole programme will need to be brought forward to achieve these targets.

A detailed strategy should be prepared for monitoring the cumulative effects of the dWRMP measures, particularly abstractions, on water dependent SSSIs. The SEA will need to take a more cumulative approach than that outlined within the current report. Our supply options have been assessed in accordance with the SEA methodology and screening approach, SSSI impacts are included in the assessment matrices where applicable. The SEA methodology was undertaken in accordance with the methodology developed at the Scoping Stage which included the statutory consultation process. This work is on existing supply arrangements is usually outside the remit of the SEA.

Our propose licenced reductions in agreement with the EA will ensure no deterioration. SSSIs have already been assessed through Habitats Regulation and any measure required implemented through previous WINEPs.

We are separately undertaking modelling to determine if existing levels of abstraction would impact on flows and groundwater levels. We would be happy to share this with Natural England, but this is not subject to SEA for the WRMP.

Drought options are considered in our published and approved drought plan. The drought measure sin our WRMP are demand related only, and have no negative impact on the environment/

Our preferred plan will deliver the required Env Act improvements at the fastest pace achievable, and likewise with the Environmental Destination requirements.

The SEA methodology was undertaken in accordance with the methodology developed at the Scoping Stage which included the statutory consultation process. This work is on existing supply

	arrangements is usually outside the remit of the SEA.
1.2.3 Page 13 Para 3. It is not clear how the current	Our proposed licenced reductions in
dWRMP will provide supply to meet planned growth and	agreement with the EA will ensure no
restore and maintain favourable condition of water-	deterioration SSSIs have already been
dependent designated sites and supporting habitat	accessed through Habitats Degulation
including our chalk streams	
	and any measure required
	implemented through previous
	WINEPs.
	Our preferred plan does not propose
	any material increase to existing
	abstractions as all future growth is
	offset through demand management
	onset through demand management.
	Our WINEP proposes measures to
	improve chalk streams and investigate
	the impact of our activities on other
	water dependant sites and is described
	In section 11.4 and 11.10.
1.2.4 Natural England's advice is that the plan should	Demand Management measures that
provide more robust evidence that a sustainable supply can	we have included in our plan are well
be delivered to meet planned growth needs without	researched and are phased accordingly
further deterioration in condition of SSSIs and other	so we are confident these will be met.
important habitats. Reliance on demand management and	There are also allowances made in the
drought measures to prevent increases in abstraction and	saving for uncertainty, along with
further environmental deterioration, until new strategic	headroom uncertainty for demand
supply options are available, is a concern to Natural	management options. In addition, we
England, for example it is not clear how drought measures	have included a new section in the
will be used to manage demand. The uncertainties and	revised draft WRMP, section 11.3,
time delays around full implementation of demand	which outlines how we will deliver our
management measures poses significant risks given the	demand management proposals,
urgency of the situation with SSSIs already being potentially	including monitoring and reporting.
impacted. Natural England's advice is that the plan needs to	
provide more robust evidence to demonstrate that demand	Our data tables represent a 1 in 500
management measures will work. The plan should also	year drought event and therefore
include deliverable alternative options to address	outline how we will ensure security of
timescales and uncertainties of delivery of the preferred	supply in this extreme situation. As a
options. It should clarify that risks associated with climate	result, our plan incorporates the risk of
change and the increased frequency of prolonged drought	climate change and prolonged drought.
are embedded in the Plan. A robust strategy to monitor the	We also test our preferred plan against
efficacy of demand management and emergency measures	different scenarios which are aligned to
should also be provided.	Ofwat's common reference scenarios.
	One of these looks at the impact on the
In Box 1 of the Biodiversity Net Gain and Natural Capital	plan should our demand management
Assessment, WRPG 2022 Section 4.1.1 highlights the need	activity only be 50% effective. These

to consider the duty to concerve highly arcity under costion	cooperies the impacts and the adaptive
to consider the duty to conserve biodiversity under section	scenarios, the impacts and the adaptive
40 of the Natural Environment and Rural Communities	pathways required as a result are
(NERC) Act (2006). This position has been strengthened	covered in section 11.7 of the revised
through the Environment Act 2021 which advocates the	draft WRMP.
conservation and enhancement of biodiversity. The	
additional level of commitment required by this enhanced	10% BNG has been sought for all supply
duty needs to be reflected in the WRMP.	side options in the preferred plan. Our
	WINEP proposes measures to improve
Cambridge Water addresses issues of diminishing water	chalk streams and investigate the
availability, increased demand and associated	impact of our activities on other water
environmental impacts by seeking to ensure adequate	dependant sites and is described in
supply. Natural England would welcome further steps to	section 11.4 and 11.10.
actively enhance biodiversity by engaging with nature	
recovery and supporting the growth of a thriving natural	
environment	
environment.	
Natural England also has significant concerns that	We test our plan against various
Natural England also has significant concerns that	we test our plan against various
Cambridge water's proposals for ensuring continued water	scenarios, as outlined in section 11.7.
availability may be insufficient, certainly in the lifecycle of	For the revised draft plan, we have
the current plan, and would like to see contingency	included more detail on these
planning for protecting the environment should the	scenarios, the impact they have on the
measures they set out in the WRMP fail to deliver.	plan and the resulting actions we
	would take (our adaptive pathways)
	should these come to pass, including
	trigger points for monitoring and
	additional work required to enable
	these.
1.2.5 Page 14 Para 1.	We have responded to NE comments
Our understanding is that proposed drought measures set	on the requirement for SEA on the
out in the draft Drought Plan (DP) 2021 were not subject to	drought plan and that as we have no
SEA (see section 1.4.2 of this letter for further comments).	drought permits other than ordinary
We advised that these measures, particularly permits and	drought orders in the plan, SEA is not
orders, should have been assessed in combination with the	required. Proposed drought measures
draft WRMP. Natural England's response to the dDP (2	that link to the dWRMP are only
August 2021, ref. 360534)	demand management measures.
If Cambridge Water is planning on relying on these options	Extreme drought measures are
these notantial affects require consideration through the	explored but not included in the
dWPMD SEA and any required mitigation measures should	Drought Plan as por the guidence. Our
he identified	M/PMD shows how we will become
	vv Rivie shows now we will become
	resment to 1:500 arought.
1 2 6 Page 14 Para 2. The SEA is fundamentally flawed in	Demand Management measures that
amitting any assessment of the plane overarching strategy	we have included in our plan are well
and the effects of current and future groundwater	researched and are phased accordingly
and the effects of current and future groundwater	researcheu anu are phaseu accoruiligiy
abstractions on SSSIs and other important habitats including chalk streams (particularly in light of planned growth and uncertainties around delivery of the demand management and supply measures) and the identification of measures to restore, maintain and enhance the condition of these habitats – and a robust monitoring programme to ensure this happens.

The importance of our SSSIs and priority habitats such as chalk streams, and the risks to their integrity and condition associated with groundwater abstraction, is acknowledged in Appendix D Baseline Analysis. The SEA needs to consider these risks in relation to the WRMP over-arching strategy and progress a detailed assessment of its effects on SSSIs, chalk streams, other priority habitats and dependent species. Measures to mitigate adverse impacts should be identified alongside actions to restore habitats and recover nature e.g., through appropriate contribution towards schemes being delivered by key partners including Natural England, Environment Agency, the Wildlife Trust, LPAs and others.

Page 14 Para 4. The lack of an alternative or adaptive plan remains a serious concern for Natural England for all the reasons stated in the above paragraph. Based on this we have limited confidence in the generally positive conclusions of the SEA with regard to sustainable water supplies and biodiversity.

Appendix C Review of Plans and Programmes includes an extensive list of relevant plans and programmes, detailing their key objectives and targets to protect and enhance the natural environment - and their influence on the WRMP and SEA objectives. However, there are no clear and specific actions referenced in the SEA, and embedded within the WRMP, that will actually contribute to any of these targets. For example, with regard to Defra's 25 Year Environment Plan 'Recovering Nature' targets, the SEA simply indicates that 'the SEA should ensure that the impacts of any WRMP options on the 25-year goals set out in the Environment Plan are fully considered, whilst taking into account environmental net gain and natural capital approach, which the government have identified as principal themes'. This is a vague action that is unlikely to contribute significantly towards nature recovery and other environmental targets.

so we are confident these will be met. There are also allowances made in the saving for uncertainty, along with headroom uncertainty for demand management options. In addition, we have included a new section in the revised draft WRMP, section 11.3, which outlines how we will deliver our demand management proposals, including monitoring and reporting.

Our supply options have been assessed in accordance with the SEA methodology and screening approach, SSSI impacts are included in the assessment matrices where applicable.

The SEA methodology was undertaken in accordance with the methodology developed at the Scoping Stage which included the statutory consultation process. This work is on existing supply arrangements is usually outside the remit of the SEA.

In the revised draft WRMP, sections 11.7 an 11.8 detail the work we have done to test our plan against various potential scenarios, aligned to Ofwat's common reference scenarios, the impacts these would have on the plan and the adaptive pathways we would need to take if these came to pass. In addition, section 118 addresses adaptive planning that looks at elements such as environmental destination.

Our chalk stream restoration work forms part of our Water Industry National Environment Programme (WINEP). This is our programme of environmental improvement, where the WRMP focuses on water resource supply and demand. For the revised draft plan we have added more detail of our WINEP programme, and more

The Environment Act 2021 is referenced in Appendix C as	specifically, our chalk stream river
'set up the EA to manage resources and protect the	restoration programme.
environment in England and Wales', incorrectly referring	
to the Environment Act 1995. The objectives and targets of	Our propose licenced reductions in
the more recent Environment Act 2021 and Government's	agreement with the EA will also ensure
Environmental Improvement Plan should be included in	no deterioration. SSSIs have already
Appendix C and specific actions set within the WRMP to	been assessed through Habitat s
contribute towards these.	Regulation and any measure required
	implemented through previous WINEPs
	We are constally undertaking
	modelling to determine if existing
	levels of abstraction would impact on
	flows and groundwater levels. We
	would be happy to share this with NE.
	but this is not subject to SEA for the
	WRMP
	Our preferred plan will deliver the
	targets BNG has been considered for
	WRMP options, and our WINEP
	programme separate from the WREMP
	will significantly contribute to other
	improvement goals. We have
	expanded on the detail of this in
	section 1.7 as appropriate, and WINEP
	is described in section 11.4 and 11.10
	This reference to Environment Acts will
	be revised in the updated Appendices.
Comments on WFD are a matter for the Environment	We do not propose to increase
Agency however Natural England notes:	abstraction above historic levels and
• This should include the risk of deterioration of	our demand management programme
groundwater dependant terrestrial ecosystems (GWDTE)	will offset the forecasted increase in
that are also SSSIs or priority habitats or species from	demand due to growth. SSSIs will have
increased abstraction within existing licences to supply	been screened and assessed for our
growth or from new schemes. Natural England's view is	options in the Env Assessment.
that failure of or increasing an existing failure of monitoring	
specifications (formerly called FCTs) for groundwater	
dependent SSSIS related to abstraction induced drying even	
a unis is in combination with climatic drying would	
1 4 1 Page 15 Pare 4 Natural England is concorred that the	Our draft WPMP outlines the license
Environmental Destination set out or relied upon in Water	caps that we will apply to our sources
Cambridge Water's dWRMP is not sufficiently robust to	caps that we will apply to our sources.

ensure compliance with all Water Company environmental obligations, as set out in Annex 2. Where a Water Company is relying on the Environmental Destination of the relevant Regional Plan it must still satisfy itself that these environmental obligations are met (see also sections 1.1 and 1.2 above). In Natural England's view the Environmental Destination in the Water Resources East Regional Plan is not sufficient to achieve this, and, as stated above, Cambridge Water's dWRMP as currently written must be amended accordingly. Within Water Resources East's draft regional plan (published November 2022): Table 1.1 of the Biodiversity Net Gain and Natural Capital Assessment document shows 4 supply options in the BVP, and this does not include: • River Cam abstraction and treatment work • Fens Reservoir internal potable water transfer Chatteris Looking to the main document diagrams, it is not clear whether the River Cam abstraction has been included in the regional plan. Cambridge Water should clarify this.	These licence caps have been determined by the Environment Agency. Similarly, environmental destination has been identified from the Environment Agency's National Framework for Water Resources. They have shared the basis of their calculations for this and we have used these numbers in our plan for the future abstractions reductions we will deliver. We will clarify the true scale of these reductions and the exact sources these are required as through our investigations between 2025 and 2030 and this will be included in our WRMP29. We have developed our plan through collaboration with the Environment Agency and so are confident these abstraction reductions are aligned with their requirements. We have reviewed the enhanced destination scenario and cover this in our adaptive planning section in chapter 11.8 of the revised draft WRMP. The Cam abstraction is included in the regional plan as a re-use option as it relies on the WWTW discharge flows to support the HOFS that allow for abstraction. This option is no longer selected early in our preferred plan.
1.4.2 There are supply options which may pose a risk to the environment, specifically those which seek to continue use of damaging abstractions or use previously decommissioned sources. Though these sources have been previously licensed, the context in which they are planned to be used has changed (i.e., we are now aware of the pressures on chalk aquifers and habitats which they support). These options include: o Options 01A and 01B (recommissioning of Fenstanton borehole)	All supply options have been assessed for environmental impact and this will be further re-enforced as they are developed in further detail. Options 01A and 01B are no longer selected in our preferred plan in the next 10 years allowing for full assessment of the impact they may have on the environment.

o Regulation 19 exemption – it is understood that
Cambridge Water have decided not to take the route of
Regulation 19 exemptions in this instance though have not
ruled out from utilising Regulation 19 inside the planning
period.

Page 16 Bullet 2. Natural England would welcome comment on the certainty of this and similar transfers. Additionally, Natural England question the location of environmental assessment of sources, being all plans are currently at draft stage.

Page 16 Bullet 3. Whilst Cambridge Water are unable to rely upon permits/ orders, there are options included within Drought Plan 2022 as actions during extreme drought and these include temporary removal of licence conditions. Clarity on the above statement would be welcomed.

o Natural England has remaining concerns about the drought plan, relating mainly to the SEA process. This is particularly important considering the impacts which drought permits/ orders may have. Again, accepting these are not sources which Cambridge Water wish to use, until new sources are made available and/or demand is reduced, in periods of extreme drought Cambridge Water may rely on these sources. In our revised draft WRMP we outline that we will now be applying for a short Regulation 19 exemption in 2030 that covers some of the licences that are to be capped. This exemption would be required until 2032 when the proposed Grafham Transfer is available for use and enables the remaining licence caps to be made.

There are 2 transfers proposed in our revised dWRMP, one from Graffham at up to 26MI/d and the Fens reservoir transfer at up to 44MI/d. These options have been discussed in detail with the donor company Anglian Water and/or been developed through the RAPID process and so we are confident on certainty of availability, and of delivery as proposed.

Drought options are considered in our published and approved drought plan. The drought measures in our WRMP are demand related only and have no negative impact on the environment.

Extreme drought measures are explored, but not included in the drought plan, as per the guidance. Our WRMP shows how we will become resilient to 1:500 drought. We have previously responded to NE comments on the requirement for SEA on the drought plan and that as we have no drought permits other than ordinary drought orders in the plan, SEA is not required. Proposed drought measures that link to the dWRMP are demand management measures.

1.4.3 Given the concerns on water supply outlined above,
Natural England would like to see more emphasis on
natural capital in the draft WRMP. It should also focus on
measures to address resilience across the suite of SSSIs
within Cambridge and meet Environment Act 2021Natural capital has been assessed for
the options proposed in our WRMP,
according to the requirements of the
guidance. Separately to the WRMP our
WINEP proposals include investigations
and implementation measures that will

solutions. Natural England would welcome an opportunity to discuss incorporating local nature recovery policy and on ensuring sufficient net gain is included within proposals. In particular, we would like to discuss this in relation to the Fens Reservoir application and associated infrastructure (although appreciating that this application is being led by Anglian Water).	address SSSI resilience and other non- water resources related Environment Act targets. We would be happy to discuss these again with NE. We work with many stakeholders and have existing and future proposals for catchment-based solutions and working towards nature recovery as appropriate. We include some details on this in section 1.7 of the revised draft WRMP. Net gain is core to the Fens proposals, and the Fens Partnership explores these.
1.4.3.1 Local Natura Recovery Strategy The Environment Act 2021 introduced a number of policies designed to achieve coordinated, practical and focused action to recover nature. Water companies need to undertake such actions to meet these statutory obligations, and non- statutory requirements, whilst maximising wider environmental benefits. This includes opportunities to improve the landscape, heritage, access and recreation outcomes linked to their duties under the Water Industry Act 1991.	Cambridge Water is committed to aligning our activities with the incoming recommendations of the LNRS to deliver for people and nature, and these opportunities are assessed over existing and new operations as and when is appropriate. Our WINEP for example is explained in section 11.4 and 11.10 of the revised draft WRMP.
As a supporting authority for the LNRS in Cambridgeshire, Natural England is looking forward to collaborating with Cambridge Water. Their influence is likely to be of great significance in the county given development pressure, agricultural pressure and water scarcity. We would welcome a commitment in the WRMP to align with and uphold the incoming recommendations of the LNRS to deliver for people and nature.	These commitments are made within our wider long term strategies for the environment and we are committed to collaborating with all parties to help achieve the outputs of the LNRS.
1.4.3.2 We note that all options within the preferred programme demonstrate that 10% BNG can be reached if required. We would strongly encourage an uplift on 10% BNG to be sought wherever possible, in line with Water Resources Planning Guidance (section 9.4.4) which states that "you should consider going beyond what might be required by the Environment Act 2021 to provide an ambitious level of measurable biodiversity net gain" https://www.gov.uk/government/publications/water-resources-planning-guideline/water-resources-planning-guideline	 10% BNG has been sought for all supply side options in the preferred plan. We are currently reviewing all opportunities for the Fens Reservoir to maximise BNG as well as wider environmental benefits. The Potential biodiversity opportunity (PBO) area tool output helps to support and inform priority opportunities within LNRS. LNRS are also taken account of through use of the PBO tool.

The report indicates potential impacts to higher	
distinctiveness habitats. We reiterate the need for proper	
application of the Mitigation Hierarchy5 when considering	
such proposals, as well as the need to take account of the	
emerging guidance/regulations around Irrenlaceable	
Habitats (e.g., requirements for besnoke compensation)	
Natural England wishes to be consulted on any plans	
resulting in impacts on these babitats	
1.4.3.3 Page 18 Para 1. This nature-based solution to water	we assess our catchment programme
quality issues is welcomed by Natural England and would	using a natural capital-based approach
urge the water company to consider the wider benefits of	to recognise the wider benefits beyond
this approach to supply that it could bring.	water quality.
1.4.4 Page 18 Para 2. Whilst positive that the water	The WRPG require us to plan to the
company are planning to meet reductions in demand to	local plan consumption for new
achieve 110 litres pp/day by 2050, it would be beneficial to	dwellings, currently 110 l/h/d, and we
seek significant demand management measures beyond	are achieving the Env Act and PIC
this, if possible, to remove these impacts and allow nature	targets as required with an optimised
to recover as soon as possible, and not just wait until new	programme of best value demand
supplies come on-line. The demand management	management measures. In addition to
interventions should be timetabled from as early as	this we propose measures in our
possible in the plan to meet the objectives, policies and	WRMP to encourage further water
timetables for nature recovery set out in Annex 2.	efficiency at significant developments
	in our area, alongside offering an
	incentive to developers that can
	construct and demonstrate dwelling
	that can meet higher efficiency targets
	that can meet nigher enciency targets
	nlan antimication, we did look at
	plan optimisation, we did look at
	achieving 901/1/0; nowever we lound
	there is no current pathway to
	achieving this, and hence we have
	retained the target of 110 l/h/d. We
	are committed to exploring innovation
	in this area however; we have been
	successful in our lead bit with the
	Ofwat innovation fund relating to
	understanding the relationship with
	water in different faith communities.
	We will continue to explore additional
	opportunities in this way.
	We are also working closely with Defra.
	the Environment Agency and the
	Department for Housing and Levelling
	Up and Communities to influence
	building standards and exploring
	retrofitting non-household properties
	with more greywater and rainwater
	with more greywater and ramwater

reuse systems to help reduce
consumption.

3.19 Ofwat

Consultation Comment	Response
The company's final WRMP should also reference the	We have included reference to this in our
target to reduce distribution input by 20% by 2037-38	revised draft WRMP in section 1.7.8 as
and demonstrate how it plans to deliver this through a	well as throughout section 11 which
combination of reductions in the key demand	outlines our preferred plan.
components, leakage, household consumption and non-	
household consumption.	
As we outlined in November 2021, we expect near-term	For the revised draft WRMP we have
interventions being identified in WRMPs to deliver long-	updated our demand forecast, and as a
term targets such as a 50% leakage reduction and	result we have updated our leakage
110l/h/d PCC to be set in the context of the optimum	profile.
long-term strategy. Setting a glidepath to meet long-	We have in section 11.1.1 more detail
term targets and outcomes should enable an efficient	regarding the different scenarios we
and deliverable long-term programme to be identified.	explored for leakage, and why we have
The company's plan only considers linear leakage	selected the profile that we have.
reduction profiles, with the 50% leakage reduction by	Since producing the draft WRMP, the
2049-50 profile selected as the preferred option. The	Environment Act targets have now been
company has not considered alternative investment	released including interim targets, which
profiles such as one that considers non-linear	specifically apply to the leakage reduction.
reductions. The company should provide sufficient and	These targets deliver a linear reduction
convincing evidence to justify why a linear profile –	profile, and if we are to meet these
rather than doing more or less in the near term – is	targets, there is little opportunity to flex
optimal from a timing of investment perspective.	our profile except to accelerate it. We
	discuss this in section 11.1.1 and why we
	have chosen to maintain a linear profile in
	line with achieving the interim targets.
The company has looked at a limited range of demand	In our draft WRMP we did not detail all of
management options and provides insufficient evidence	the demand management options we
for how it optimised its demand management	assessed in detail. For the revised draft
strategies. We expect the company to explain and	WRMP we have updated section 9.5.6 to
provide sufficient and convincing evidence for how the	include the detail of all of the demand
strategies were devised and how the preferred strategy	management options we assessed.
represents the best value approach to meet a supply-	
demand balance.	
We are concerned that, based on the draft WRMP data	We have created a new section in plan –
tables, the company does not forecast to deliver its	section 6.10. Here we detail any changes
PR19 performance commitment level for PCC by 2024-	between the end point of WRMP19 and
25. We expect the company to deliver its PR19 and	the starting point of PR24 and the reasons
WRMP19 targets. Companies should not expect	for this.

additional customer funding to address deficits resulting from under delivery in the current or previous periods. We expect the company to review its proposals in these areas for its final WRMP. Leakage	We have also created a new section 2.2 which provides details on our commitments at WRMP19 for AMP7 and how we have performed against these, and therefore any related assumptions that have gone into the WRMP24 as a result. This includes both supply side and demand side activities. For PCC and leakage, we have assumed we will achieve our end of AMP7 target for both areas and therefore our WRMP24 starts at these levels. We have updated our PCC forecast levels to ensure it corresponds to the end of AMP7 target absolute position – 124 l/h/d. Our plan therefore starts at this end delivery position. We are still seeing the impact of Covid on our PCC level and have ambitious plans in place to ensure we reduce our PCC to the target level so that our plan from 2025 starts in this place.
We welcome that Cambridge Water has set out it plans to reduce leakage by 50% from 201718 levels by 2050 and that its proposed rate of reduction of 13.1% across the 2025-30 period is comparable with its 2020-25 ambition. However, although the company tests two scenarios, both aim to achieve the same target reduction of 50% and the company does not test achieving other targets, nor it is clear how the testing has influenced the selected target presented in the draft plan.	We have included information regarding the different scenarios we reviewed for the leakage profiles in section 11.1.1 of the revised draft plan.
The company chooses proactive trunk mains renewals with a high unit cost to achieve leakage reductions in the near term (including for 2025-30). This is partially the result of the company assuming that some lower cost options require the smart metering rollout to be fully completed before they can start. This results in a high leakage reduction enhancement expenditure unit cost of 13.8 £m/MI/d for the 2025-30 period. We expect the company to review its leakage reduction proposals and provide sufficient and convincing evidence it is presenting a best value solution based on efficient activity costs and optimum activity scheduling.	We have reviewed our leakage profiles and activities as part of the revised draft WRMP. We detail the outputs of this, and the cost impacts, in section 11.1.1. Trunk main leakage here is high cost due to the assumptions in the development. We discuss this specific element in the same section of the plan. Our costing was based on some work undertaken at the end of AMP6 in our Cambridge Water region. Here we undertook a trunk main renewal programme on the A505 due to leakage volumes and frequency, which in turn delivered 0.5 MI/d of benefit. Our trunk

	main approach for this WRMP was to identify similar opportunities and replicate this. Hence the higher cost due to long lengths of trunk main replacement. We have been reviewing this process over the last 18 months and now found there are no other trunk main large scale renewal projects that we can identify in our area. We have also used new technology in AMP7, such as satellites, which has enabled us to better pinpoint leakage and undertake localised repairs. As such, our preferred plan does not include the specific trunk main option identified (2021-001) and instead we continue to use our active leakage control (ALC) approach for trunk mains as well as regular mains and comm pipes. Therefore, trunk main leakage detection and repair is now incorporated into this activity.
Cambridge Water appears to have assessed the customer supply pipe repair or replacement (with and without smart networks) options but has not discussed its policy with regards to customer supply pipe leakage. We are encouraging companies to evaluate the benefits of a common industry approach to addressing leakage on customers own pipes. We expect companies to provide a view on the benefits of a common industry approach in their statements of response and final WRMPs. We will support companies in the development of a common approach but expect the industry to lead on the development. The Water UK leakage routemap to 2050 committed to an informed debate on customer supply pipe strategy by December 2022.	We have included details on our policy, and the benefits of an industry wide approach, in section 11.1.1.
Cambridge Water has set out its plans to meet the per capita consumption (PCC) target of 110 l/h/d by 2050. However, the company proposes a three-year average PCC increase of 5.2% across the 2025-30 period which shows lack of ambition when compared to the 2020-25 period. We expect the company to justify its chosen glidepath for 2025-30 in comparison to 2020-25 in its final WRMP	In our draft WRMP data tables, our PCC projections showed an uplift due to the Covid impact we have witnessed on household consumption. However, that is an increase on our targeted end of AMP7 position as per our PR19 performance commitments. We updated our demand forecast for the revised draft WRMP and the updated tables accompanying it now show us ending AMP7 (and starting AMP8) are our targeted position of 124 l/p/d. We have

	then updated our PCC profiles throughout
	the planning period and we see a reduction across AMP8 as planned
	reddetion deloss Awn o us planned.
	However it should be noted that the data
	tables represent a dry year scenario,
	whereas our PCC target is averaged over a
	3 year period in order to provide a normal
	permal year target of 124 l/p/d in table 2
	which looks at NYAA and then an unlift
	has been applied (8.7% for measured
	customers and 1.3% for unmeasured) for
	the dry weather factor in table 3. This is
	why the starting position for PCC may still
	seem higher than our AMP7 target
	position. However, our plan shows us
	achieving 110 l/p/d in a dry year scenario
	by 2050.
	We detail the activities we intend to carry
	out to achieve this in section 11.1.3 of the
	revised draft WRMP.
We are concerned that in the draft WRMP data tables	For our revised draft WRMP we have
the company does not forecast to reduce non-	updated our demand forecasts by working
forecasts a 9.4% increase by 2029-30 based on its draft	collating employment projections. For
WRMP. We expect the company to set out and clearly	NHH this has led to an increase in the
justify an ambitious strategy for non-household demand	demand forecasted – by 2038 NHH
reduction in its final WRMP. We also expect the	demand will have increased 55% from the
company to explain how its non-household	19/20 baseline level.
consumption trend has impacted the optimisation and	In order to deliver a 9% reduction, all of
best value option selection in its preferred plan.	this new NHH growth would have to be
	consumption across existing properties
	Our work has shown this is not possible.
	As such, we are proposing to deliver a 9%
	reduction from the 2038 forecasted
	position and a 15% reduction from the
	2050 forecasted position.
	In our revised draft WRMP we have
	turtner emphasised the importance of
	of the proposal to create a PAPID style
	approach for demand management titled
	ARID. We believe that a national approach
	is required to ensure effective and

	efficient delivery of the NHH target to
	ensure clear communication and
	standardised approaches for retailers and
	our NHH customers.
	We are working closely with Greater
	Cambridge Planning, the Environment
	Agency and Defra to ensure that the
	growth in the Cambridge region is
	sustainable. We are working with the new
	Water Scarcity Working Group that has
	heen convened by the Department for
	Levelling IIn. Housing and Communities
	the Environment Agency Ofwat central
	and local government and innovators
	and local government and innovators
	addross water scarcity in the area. As part
	of this work we are exploring the role all
	soctors must play in onsuring the
	development is sustainable and the
	aptions and apportunities we can explore
	to achieve this. This proposal it outlined
	here long term plan for bousing _ GOV LIK
	(www.gov.uk)
	(www.gov.uk)
The company considers the implementation of smart	Following this feedback, and similar from
networks (including household smart metering) to be a	the Environment Agency, we have
key enabler in delivering the demand reduction options	engaged with other companies who have
proposed in its draft WRMP. However, the company	an extensive smart metering rollout
assumes that smart metering on its own does not	programme in AMP7 and detailed
deliver any demand reductions but facilitates demand	information on the benefits that can be
reduction across households, non-households and	recognised from the installation of smart
leakage. There is no explanation for why the company	meters. We have undated our assumption
uses this approach to allocating benefits between	so that installing a smart meter into a
demand side activities. It also assumes that all meters	previous unmetered property now saves
need to be installed before ontions that rely on the data	13% per person per day. We discuss this in
from them can be implemented. The company should	more detail in section 11.1.2
explain this assumption as this could delay more cost-	
effective ways of reducing demand in the near term	
Cambridge Water selects a universal smart metering	As part of our demand management
programme, using advanced metering infrastructure	optimisation, we assessed several options
(AMI) technology, delivered to reach full meter	for universal metering – achieving this by
penetration by 2035. The company should provide	the end of AMP8, by the end of AMP9, or
sufficient and convincing evidence that this rate of	not undertaking it at all. Our optimisation
metering is ontimal and achievable over the long-term	
	showed that it is not possible to hit the
The company states it aims to use AMI meters wherever	showed that it is not possible to hit the Environment Act targets without this in
The company states it aims to use AMI meters wherever nossible as the cost difference between AMI and	showed that it is not possible to hit the Environment Act targets without this in place. As part of our optimisation, we have
The company states it aims to use AMI meters wherever possible as the cost difference between AMI and automated meter reading (AMR) meters is minimal. As	showed that it is not possible to hit the Environment Act targets without this in place. As part of our optimisation, we have assessed delivering the universal metering

described in the PR24 final methodology the company's decision to install AMI meters over AMR meters should include compelling evidence that justifies why this represents the best value approach to meeting a supplydemand balance or delivering long-term strategic outcomes. The company also needs to provide sufficient and convincing evidence that the unit costs of its AMI meter installations are efficient. programme by 2030. However, there are several reasons that we do not believe this is a viable option:

- We have developed our plan with our supply chain to ensure that it is deliverable – accelerating the proposed programme would create supply chain issues with resources to deliver and meter availability.
- All companies have ambitious metering programmes. This is putting a strain on meter stock, which is exacerbated by current world affairs.
- Several companies have undertaken large scale metering programmes between 2020 and 2025 and found delivery challenging – we have liaised with these companies to understand the lessons learned and ensure we build a plan that reflects these.

In Cambridge we already have a higher level of metering penetration than the industry average at 74%, and we acknowledge that 100% will not be fully achievable due to shared supplies and other complexities, but believe our plan is ambitious and deliverable. For the revised draft WRMP we have added clarity to our AMR/AMI metering approach, detailed in section 11.1.2. Our plan assumes these smart meters will all be AMR in AMP8 – however these AMR meters have AMI capability and can be switched to AMI easily once the associated infrastructure is in place. This is our approach because the infrastructure in our area of operation is not currently in place to support AMI meters readily, and therefore the increased costs for installing this means the costs outweigh the benefits. We do expect this to change over the lifetime of our plan, and therefore are proposing to install AMR meters that are easily, and cheaply, converted to AMI

	meters. We expect this shift to occur during AMP9 and beyond, and this is reflected in the split of meter installs we're proposing from then, with an assumption of 50% of each from AMP9.
We expect the company to provide sufficient and convincing evidence in its final WRMP to justify why its selected targets for demand reduction (leakage, PCC and business demand) represent the best value approach to meeting a supply-demand balance or delivering longterm strategic outcomes. This should include evidence of target testing and a clear explanation of the company's decision-making process.	The Water Resource Planning Guidelines were updated in March 2023 by the Environment Agency and these state that all plans should achieve the Environment Act targets, including all interim targets. As a result, this offers little scope and flexibility around the profiling of demand management activity, part from the accelerate the programme. This is the approach we have taken for leakage in the revised draft WRMP where we have proposed to meet the 50% reduction target by 2040 which is 10 years earlier than the target date of 2050. This is following consultation feedback from stakeholders and direct customer feedback through our development of our PR24 business plan that we should go further faster. We are obviously conscious of the water resource challenges in the Cambridge Water region and the benefit that accelerating this programme can provide, hence our decision to do so. We cover this, and the chose trajectories of our other demand management options, in section 11.1 of the revised draft WRMP.
As stated in our PR24 final methodology, we expect	in section 11.1 of the revised draft WRMP. We can confirm that our PR24 and LTDS
consistency between final WRMPs, company long-term delivery strategies and business plans at PR24. Any areas of variance between final (and published) planning frameworks and business plan submissions need to be fully explained, supported by compelling evidence. This should also include the reasons for changes and include confirmation that customers and the environment are not or will not be worse off.	directly reflect the revised draft WRMP.
Cambridge Water has used a 25-year planning horizon and some rationale is provided. Whilst the company has met the statutory requirement to forecast supply and demand over at least 25 years, the planning period should be appropriate to the risks the company faces. Given the challenges and risks the company has	Our WRMP data tables cover the period from 2025 to 2100 and show the future forecasts past this point. However demand forecast data past 2050 is merely an extrapolation of existing growth and is not based on any robust projections. Similarly,

identified, it may be more appropriate for Cambridge Water to plan for the next 50 years. This is to ensure the WRMP identifies the right solutions to meet future pressures.	any environmental needs past 2050 are not yet identified. In addition, we make no further assumptions about demand management past this point due to uncertainty around need, costs and delivery. This means that any plan past 2050 is likely to be very uncertain and based on significant assumptions, and therefore does not add significant value to the process. The data tables do show these elements and where potential
	future issues may occur, but we believe there is little value to be added at this stage in developing options to resolve potential deficits that are highly uncertain post 2050.
The company's supply demand balance starting point for the draft WRMP24 is significantly lower than its forecast for the same point in the final WRMP19. The reduction in available water for 2025-26 is equivalent to 14% of company water demand (distribution input). Although some of the changes are due to supply-demand balance reporting updates, there is still insufficient evidence provided to understand changes in some areas. In some areas, the evidence suggests that non-delivery or underperformance is the cause. We are concerned about the company not meeting expected WRMP19 PCC levels, non-delivery of PR19 funded schemes, and changes to assumptions within the water balance such as population forecasts, non-household demand increasing by 37%, and a 30% increase in target headroom (uncertainty allowance). This means that we have significant concerns whether the overall outcome of the WRMP19 as funded at PR19 has been delivered. The company should fully quantify and justify the reasoning for changes between WRMP19 and the starting point for WRMP24 at a supply-demand balance component level with sufficient and convincing evidence.	We have included a comparison of our starting point in WRMP24 compared to the same position in our WRMP19 in a new section in the plan, section 6.10. Here we articulate any changes between key numbers and assumptions, and he reasons for this. We expect to meet WRMP19 out turn for our PCC forecasts and PR19 schemes. Our revised demand forecasts have been updated using the most recent available data for the region and include changes to local plans and aspirations for increased growth in the Greater Cambridge area. We have revised our target headroom risk profile from our initial draft plan, to align with the risk profile that was applied at WRMP19 and consistent with the approach for WRE companies. By including risk and uncertainty due to non-delivery of DMOs in the headroom calculation, the overall target for headroom has reduced. Baseline forecast distribution input at 2025-26 remains similar to that forecast in our preferred plan for WRMP19 with <1% variation. The main driver of difference in the overall SDB is the increased sustainability reductions for No Deterioration, at WRMP19 this was c 6MI/d, and this has

	in 2025 in both WRMP19 and our revised draft WRMP24 remains within <1.5%
There is limited evidence provided that the benefits of funded PR19 activities have been appropriately factored into the draft WRMP24 baseline supply-demand balance. South Staffs Water should provide granular details of the benefits of funded schemes and how and when these have benefitted the baseline supply- demand balance. Where a step change in supply demand balance between WRMP19 and WRMP24 is not sufficiently justified by scenario drivers, and may instead be as a result of non-delivery or underperformance, considerations will be made at PR24 in the assessment of enhancement funding.	We have included a new section in our plan, section 2.2, which details our AMP7 funded activities and our performance against them. Here we articulate any implications this has had on our planning assumptions and the impact these have had on our baseline supply-demand balance.
It is important that WRMP19 supply- and demand-side options are on track ahead of WRMP24. We expect the company to make substantial efforts on delivering its schemes and demand reduction for the rest of the 2020- 25 price control period, to ensure that WRMP19 forecast, and PR19 performance commitment targets are met annually, and to set firm foundations for delivering WRMP24.	We provide detail on our performance against these WRMP19 in section 2.2 of the revised draft WRMP. As shared in our 2022/23 WRMP19 annual review, we have extensive improvement plans in place for elements where we are off track, which is most notably PCC. Our review shared the details of these plans, and we say a 5 l/p/d reduction in PCC between 2021/22 and 2022/23 as a result of these plans which are set to continue throughout the rest of AMP7. In addition, we also outlined our plan to catch up on our meter installation programme and to then accelerate meter delivery in year 5 of the AMP. We are confident we have robust improvement plans in place for these two areas and will continue our focus on the delivery of the supply side schemes outlined at WRMP19.
It is important that the company manages the uncertainty around population growth effectively to make sure its programme delivers secure supplies to meet demands in the short and long term, while also not overinvesting in potentially sub-optimal solutions that may not be necessary or needed to the same scale. This is important as, in response to a query, Cambridge Water confirmed that the WRMP24 population forecasts were 10,590 and 19,030 higher in 2025-26 and 2029-30 respectively when compared to the same dates in the WRMP19. These are significant changes in population estimates over a short time period especially for a	For the revised draft WRMP we have updated our household and non- household demand forecasts and have worked closely with Greater Cambridge Shared Planning in order to do this to ensure they accurately reflect the latest local plans as well as the current employment projections. We have developed various scenarios relating to growth and have tested our plan against these scenarios. We outline the growth

company of Cambridge Water's size. This concern is amplified by the company stating that population forecasts are based on old data (pre-Covid-19) and will be updated for the final plan using updates of population and properties taking account of any changes to population as well as Government annual housing growth targets. This activity should have been completed for the draft WRMP consultation as it risks significantly changing the investments presented in the final plan. Any changes to population and property numbers need to be sufficiently evidenced in the final plan with a clear explanation of the consequences to the	scenarios for both HH and NHH in the revised draft WRMP in chapter 5.2. We have discussed our baseline growth scenario with the Environment Agency and Greater Cambridge Shared Planning and are confident this most accurately represents the current published levels of growth in the Cambridge region aligned to the WRPG.
Based on other company plans we understand that Office for National Statistics (ONS) growth scenarios can be significantly lower than in company preferred pathways and that high forecasts can be driving unnecessary investment in the short term that can be better managed through adaptive planning and more modular solutions. However, Cambridge Water has been unable to present the numbers used for a low demand scenario for this comparison to be made. We expect the company to provide low demand scenario data as well sufficient and convincing evidence that uncertain population growth especially post-2030 is not driving significant amounts of uncertain investment in the 2025- 30 period	For the revised draft plan we have run a scenario where we use ONS data as the baseline for our plan. This shows that the ONS data actually forecasts a reduction in demand. This is because the forecasted new build growth for the ONS scenario is very low. Our demand forecast assumes a general reduction in use due to most micro-component use reducing following an exisiting trend. In addition, is assumes the current rate of customers opting to a meter and takes into account the reduction in demand this typically brings. As a result, this modest increase in growth is offset by these elements leading to an overall reduction in demand. As you will be aware, there are currently regular meetings being held between Cambridge Water, the Environment Agency, Defra and the Greater Cambridge Shared Planning teams regarding the risk that the current proposed levels of growth
	pose to the environment and the water resource availability in the area relating to the current objections lodged by the Environment Agency regarding current developments. These are issues we are facing in the region now based on the current level of proposed growth, and therefore we believe it to be inapproprate to plan for a level of growth that we know to be lower than both the local published plan and the aspirations set out by

	Government departments such as DHLUC for the Cambridge area, and which shows demand reducing
	demand reddeling.
	We include the details of this low growth scenario in section 11.5 of the revised draft WRMP.
Based on its draft plan and query responses, it is unclear if Cambridge Water has tested the optimum timing of achieving 1 in 500 year drought resilience and if it fully understands how this testing should be undertaken. We note that the company states that once all its planned options are in place it will be resilient to a 1 in 500 drought event and that this will be before 2040. This does not mean that the company is already resilient to a 1 in 500 year event which it states elsewhere. Cambridge Water should provide sufficient and convincing evidence to show that it has robustly tested the sensitivity for the date to meet 1 in 500 year drought resilience. This should include presenting the costs, benefits and impact on the selection of preferred schemes and of choosing alternative dates including a test of delivery in 2050. The selected date to achieve 1 in 500 year drought resilience should be justified based on this testing and optimised based on the costs and benefits. This is important as the scale of impact, and importantly the date for achieving it, is a key driver for scheduling schemes in the investment programme	Our revised draft WRMP outlines that we achieve the 1 in 500 level of resilience once the preferred option of Fens Reservoir comes on line in 2036. However, the timing of Fens Reservoir in the plan is not driven by the 1 in 500 date requirement, it is driven by the environmental destination abstraction reductions required for Cambridge Water as well as to meet the no deterioration licence reductions for Anglian Water. Therefore the option to delay reaching the 1 in 500 resilience level would mean delaying the implementation on Fens Reservoir, which in turn would cause delays to meeting statutory licence reductions. Therefore this approach would mean statutory obligations are not met and is not a suitable option. We have included this detail in section 11.4.5 of the revised draft WRMP.
The company should be clearer in how it presents the levels of service that delivery of the WRMP will provide to customers. For example, based on the draft WRMP, it is not clear what level of service is being provided for emergency drought orders (standpipes or rota cuts), with references found for once every 100, 200 and 500 years and no clear indication when in the planning period they change. Cambridge Water's final WRMP should make clear what is being delivered and by when and that any changes to levels of service have customer support.	We have updated table 8 in section 6.1.3 to provide clarity around our levels of service, detailing the date we expect to deliver 1 in 500 drought resilience from our current standard of 1 in 200 years.
Cambridge Water's assumption around its outage allowance (which contributes to the company supply- demand balance and proposal for investment), is high compared to most other companies at over 5% of the company distribution input. Therefore, this planning assumption contributes to the company supply-demand balance and proposals for investment. The company needs to present sufficient and convincing evidence that	Our outage allowance has been calculated in accordance with the planning guidelines WRMP24 Supplementary Guidance 16032021, EA, and the recommended technical approach in UKWIR report Outage allowances for water resources planning (UKWIR,1995).

the outage allowance is appropriate in both the short	As per guidance, the data used in our
and long term, and is not driving unnecessary and high	models to determine the allowance is
regret investment. It also needs to set out how this level	based on recent, relevant, actual outage
of outage tracks the reported unplanned outage	data you have collected, this was reviewed
performance commitment and what ontions the	for events up to 2021. Our outage figure
company has considered to reduce its outage allowance	is 5.7% through AMP8 rising to 5.8% of
	distribution input in AMP9 and is reviewed
	and undated every E years with new data
	and updated every 5 years with new data.
	Due to the relative surplus of surplus
	Due to the relative number of sources
	versus distribution input contributing to
	supply in an integrated network it is not
	appropriate to compare our WRZ with
	other companies – for instance over 40%
	of our sources have an individual
	deployable output above the outage
	allowance. The allowance does not drive
	investment additional to that required for
	meeting licence caps to prevent
	deterioration and is appropriate to allow
	for planned outages to maintain assets –
	which would be minimised in a dry year
	scenario - and unplanned outages outside
	of our control, which could still apply in a
	dry year scenario. An underestimation of
	outage allowance, in particular relating to
	longer term unplanned issues, would
	increase risks to the security of supply. In
	the longer term, changes to supplies as
	options are implemented will change the
	outage risk profile, and this will be
	reviewed in subsequent WRMPS in the
	meantime it is appropriate to maintain
	< 6% outage allowance, where it is not
	driving additional supply investment
	Outturn outage will legitimately vary year
	from year and from the outage allowance
	for WPMP and the upplapped outage
	norformance commitment. Both the
	performance commitment. Both the
	performance commitment and wkiviP
	outturn outage figures are derived from
	the same database of events, however the
	methodology of event types included and
	the approach to longer term outage
	adjustments is different, so they will not
	match. For example, water quality events

	are excluded from the performance commitment, but not the WRMP allowance and therefore there is a difference in the methodology used for outage calculation for the Environment Agency and for Ofwat. The outage allowance has been relatively consistent following reviews of data since WRMP14, reflecting that the types of events experienced, and the resulting average outage are appropriate for our WRZ. We do not consider that there are options available to reduce outage due to the proportion of induvial sources that have outputs above the allowance and the risks that a lower figure would introduce into our WRZ system.
We queried how many unique options (removing sub- options) were included on the feasible list, how much water they could provide and what proportion of expected needs these could meet by 2050. The response shows that when compared to expected need of 67 MI/d, the feasible options can meet around 190% of its need. The company only presents 26 feasible options of which 18 are selected in its preferred programme. The company does not provide a sufficient range of options to provide confidence that its proposed investment programme is best value over the long term	As part of developing the Cambridge Water WRMP24, a key element involves options development. Here we identify any potential new supply options, and our process identified over 130 options. These options include: • New groundwater • New surface water • Licence trades • Water transfers • Groundwater enhancement • Water reuse These options must then be screened to ensure they are feasible and so these have a high level environment assessment to identify any concerns that cannot be mitigated. Any options that pass this screening process progress as feasible options, and these are shared with key stakeholders and regulators at pre- consultation phase. As a result of feedback at this stage, additional options, predominantly groundwater options and licence trades relating to chalk aquifers, were also screened out. This led to a final feasible options list of just 18 options. These options include:

Γ	
	Groundwater
	enhancement
	Water transfers
	 New surface water
	Due to the unique nature of our
	geography in that we are nearly 100%
	chalk aquifers, there are very limited
	opportunities to source more water inside
	of our region and we are reliant on water
	availability outside of our area through
	transfers and new surface water options
	such as the Fens Reservoir.
In its final plan. Cambridge Water should provide	As part of developing the Cambridge
sufficient and convincing evidence that it has	Water WRMP24, a key element involves
undertaken a robust unconstrained options	options development. Here we identify
identification programme, or widen the number and	any potential new supply options, and our
range of ontions identified. If the company is restricted	process identified over 130 options. These
by the options available in its supply area it should	ontions include:
consider a range of ontions from outside its operating	New groundwater
area including from all neighbouring companies and	New groundwater New surface water
regions. In addition to the points above, we note that	Licence trades
the net surplus generated by the preferred entions is	Water transfors
the net surplus generated by the preferred options is	• Water transfers
very low before the rens reservoir is proposed to come	• Groundwater
online in 2035. The company should provide sufficient	
and competing evidence in its final write that the	• Water reuse
number, range and scale of options is appropriate and	These options must then be screened to
allows sufficient nexibility for optimisation.	ensure they are reasible and so these have
	a nigh level environment assessment to
	identify any concerns that cannot be
	mitigated. Any options that pass this
	screening process progress as feasible
	options, and these are shared with key
	stakeholders and regulators at pre-
	consultation phase. As a result of feedback
	at this stage, additional options,
	predominantly groundwater options and
	licence trades relating to chalk aquifers,
	were also screened out. This led to a final
	feasible options list of just 18 options.
	These options include:
	Groundwater
	enhancement
	Water transfers
	New surface water
	Due to the unique nature of our
	geography in that we are nearly 100%
	chalk aguifers, there are very limited
	chaik aquiters, there are very innited

	opportunities to source more water inside of our region and we are reliant on water availability outside of our area through transfers and new surface water options such as the Fens Reservoir. We have worked collaboratively with Water Resources East, the other regional planning groups and other sectors to identify all available new sources of water.
Cambridge Water includes 22 unconstrained third-party options in its draft WRMP though none of these are identified as feasible and there is no explanation of why they cannot be explored further. There is insufficient evidence that the company has met the expectations around the identification and fair treatment of third- party options as described in the water resources planning guidelines. Companies should take an active engagement role and support third-parties in their provision of information and analysis as part of the development of third-party options. We expect sufficient and convincing evidence in the final WRMP that all parts of the guidance have been followed appropriately in relation to third party options, and that the lack of third-party options in the company's preferred plan is because such options have not been considered to provide low regret best value.	 We had no bids into our Market Information tables from third parties, all of the third-party options were identified by the company and consultants on our behalf. These options were screened out broadly due to the criteria below, as set out in options list in Appendices N1-N3: Licence trading options in the chalk – screened out due to trade volumes being capped at recent actual, and the licences considered either in future use by other water companies/third parties at those quantities being insufficient for a feasible option. Also low confidence in the ability to progress with other abstractors and licence uncertainty. Greensand licence trades – lack of water availability due to recent actual trade constraints and need to trade to an existing WTW to efficiently utilise the volume available ruled out by localised no deterioration concerns. Mid-level transfers – screened out due to uncertainty ver available volume, water quality risks, environmental impacts and geographical location Ely Ouse Essex Transfers – concerns over the utilisation as

	 this is required by ESW in dry years, no effective DYAA yield Gravels options – screened out due to uncertainty over the reliability and volume this would yield and the likely localised impact on environment and other water users, navigational, recreational. None of the options considered as 3rd party provided sufficient certainty to be considered low regret or best value options within the screening criteria.
To address the supply demand balance deficit in the near-term Cambridge Water has included the benefit from drought management measures in any dry year. Cambridge Water should clarify how it will apply drought measures to manage demand and abstraction in its final WRMP.	We have included our drought measures as instructed by the Environment Agency and these directly correspond to the drought measures detailed in our latest drought plan which we published in April 2022. For Cambridge Water, we have no drought permits or orders that deliver supply side benefits. Our drought measures relate to demand management, i.e. temporary use bans and non-essential use bans. As the data tables represent a 1 in 500 year drought, this corresponds to level 4 in our drought plan. TUBs are a level 2 measure and NEUBs are a level 3 measure and so both of these could have been implemented. We have only included TUBs and not NEUBs benefits due to uncertainty and the unlikelihood they would be in for every year in a dry year 1:500 drought, particularly linking to the economic implications of doing so. The benefits included are the same as those included in our drought plan.
Cambridge Water has not provided sufficient	We have provided additional information
MRMP. Extra information was provided to Ofwat on	draft WRMP. For the Grafham transfor we
utilisation after querving. We expect to see more robust	assume 100% utilisation upon
evidence on utilisation in the final WRMP in line with	commissioning and for the length of the
feedback in our pre-consultation feedback letters, to	transfer availability. For Fens Reservoir we
fully explain and justify the utilisation rates given and to	also assume 100% following a phased
provide evidence that modularity and scalability in	increase to the yield availability following
optioneering has been fully considered and explored to	commissioning but effectively assuming

manage low utilisation situations. We require clearer	that 100% would be available from 2036
and more detailed evidence in the final WRMP that	and enables the potential to deliver ED
operational interventions have been considered and will	reductions earlier.
be implemented where appropriate if this is the best	
value solution	
Fens reservoir has a comparatively high unit cost. This is	We have provided more information in the
a large project which will require significant investment.	revised draft WRMP regarding the
Cambridge Water should provide clear and robust	selection of Fens Reservoir in WRE
evidence around the selection of Fens reservoir, and the	modelling, including the size and yield. We
best value least regrets size and yield, in its final WRMP	also share the work that has been ongoing
and present a clearly evidenced and thought-through	since the draft WRMP to review the yield
approach. This should include consideration of other	of Fens.
options to increase the yield of the Fens reservoir. The	The costs we have included are the latest
company should provide assurance that costs for Fens	costs and are the same as those included
reservoir and the associated transfer used in modelling	by Anglian Water for their revised draft
are the latest costs.	WRMP.
The lead in times for options are not completed in the	We have ensured that all lead in times are
draft WRMP data tables. We expect these to be	included in the updated tables we will
presented in the final WRMP as well as any explanation	submit alongside our revised draft WRMP.
of where lead in times may be limiting option selection.	
Given we have been unable to comment on these there	
is an increased likelihood that we may intervene at PR24	
if this is generating sub-optimal investment and higher	
costs for customers	
Table 4 (Options Appraisal Summary) includes a column	Option CW2473 is the Fens transfer and
to flag interdependent options. These are options which	included the WAFU benefit of the transfer.
are dependent on one another. We expect the company	Fens reservoir is not included a specific
to ensure that interdependent options are flagged	option in table 4 as it is being developed
through this table to ensure clarity when regulators	through the RAPID process with WRE as a
review the company's options appraisal and selection.	SDRO alongside WRMPs. We have
Option CW2473A (Fens Reservoir internal potable water	included the benefits of the reservoir in
transfer Chatteris) for example, is not flagged as	the transfer option and a 50% proportion
interdependent in Table 4. However, it is dependent on	of the cost for the Fens reservoir in table
the Fens reservoir option. This is not clear in Table 4.	5. Whilst not strictly an interdependency
The company should review interdependencies between	in the options presented in table 4, we
its options and ensure that this is clearly explained in its	have commented on the SRO dependency.
final plan and that its data tables are also completed in	
full	
Cambridge Water has described how its draft WRMP is	We have included an additional chapter in
informed by the relevant regional plan. However,	the revised draft WRMP, 10.1.3, which
further detail describing the regional methods and	details the WRE process and how our plan
approaches should be added for the final WRMP.	links to this.
The final WRMP narrative should contain a complete	We have included more detail on our
and standalone explanation of decision making at the	decision-making process, including
company level. Cambridge Water should provide an	constraints on this, in section 9.7 of the

explanation of the optimisation process used to derive	
the preferred programme including the use of tools.	
Identification and consideration of best value metrics	We have covered this in a new section in
have been presented, however the line of sight to the	the revised draft WRMP, section 9.3.4.3.
draft WRMP objectives is unclear. Cambridge Water	
should provide further detail in the final WRMP	
explaining how the best value metrics align with the	
plan objectives. Furthermore, it would be beneficial to	
clearly identify the line of sight to sub-metrics and to	
outcomes. This would help structure and justify the	
preferred plan selected.	
Cambridge Water has considered a range of economic,	We have included a new section in the
social and environmental benefits that the options can	revised draft WRMP, section 9.8, which
deliver. Cambridge Water has not referred to Ofwat's	details Ofwat's public value principles and
public value principles. We would like Cambridge Water	how these have been reflected in our plan.
to use Ofwat's public value principles, and reflect	
expectations referred to in the PR24 final methodology,	
within its best value planning process in its final plan	
and explain how these have been used to inform best	
value decision making.	
In combination assessments have been included for	
environment but not for deployable output at the	We have added in detail for this in section
programme level as part of best value plan assessment,	11.6 of the revised draft WRMP.
and these should be completed for the final WRMP	
As raised in the section above, we are concerned that	In chapter 9.5 of the revised draft WRMP,
Cambridge Water's least cost and best value plans select	we include more detail on the range of
the same options due to the limited options available.	options (numbering 130) that were
The draft plan does not justify this outcome in the	considered as part of the plan, plus the
context of best value decision making, but ascribes it to	constraints that have meant there are only
the limited options available in relation to the deficit.	18 feasible options. The revised draft also
Cambridge Water's final plan should demonstrate that a	includes information to demonstrate our
lack of options does not result in a sub-optimal	selected options are low/no regrets and
programme	provide the greatest benefit to the region.
While the best value plan and the least cost plan are	We have included more detail on this in
currently the same, if there is a change in the plans the	chapter 11.8 Alternative Planning.
company should clearly present the benefits of the least	
cost plan against its preferred plan. It should provide the	
total cost and overall value of each of the programmes.	
Where investment is proposed beyond least cost, the	
value of the additional benefit needs to be presented	
within the WRMP planning tables, with the robustness	
of this valuation data important for significant areas of	
investment. As well as clearly presenting this, the	
company should provide sufficient and convincing	
evidence that the costs to deliver the best value plan is	
outweighed by the additional value it provides	

Cambridge Water should further demonstrate in its final	We have made it clearer in the revised
WRMP that decision making has not been influenced by	draft WRMP that the 1 in 500 requirement
artificial constraints and that any constraints applied are	is not driving any of the timelines for
appropriate. This includes presenting the implications of	actions – it is achieved once Fens
sensitivity testing of different profiles of 1 in 500 year	Reservoir comes online and this timeline is
drought resilience, flexing the use of drought permits	driven by the licence caps faced by Anglian
and orders, testing different glide paths on water	Water as well as longer term growth and
efficiency and leakage as well as use of temporary use	environmental needs in the Cambridge
bans (TUBs) and nonessential use bans (NEUBs).	Water region.
The adaptive planning section justifies not adopting an	We have updated this for the revised draft
adaptive planning approach by stating that the plan is	plan and share details of our adaptive
'solely dependent on demand reductions'. We do not	planning in section 11.8.
understand or accept this justification as a large supply	· _
option is proposed for investment in 2025-30.	
Cambridge Water should present adaptive pathways	
and trigger points as well as target headroom and	
explain how these have been established based on	
uncertainties. Cambridge Water should also evidence	
that it is not double counting uncertainty. Sensitivity	
analysis around trigger points should be completed and	
presented in the final plan	
In its final plan, we expect Cambridge Water to present	In the revised draft WRMP we present our
a core pathway in line with the Water Resource Planning	core pathway is section 11.6. We also
Guideline (WRPG) definition that includes low-regret	include additional information on the
investment to meet future uncertainties and additional	scenario testing we have undertaken on
option value to allow further flexibility in the future. The	this in section 11.7 of the revised draft
company needs to demonstrate that scenario testing,	WRMP, entitled Scenario Testing.
including the common reference scenarios, has been	
used to identify low-regret investment that is required	
in all or most plausible futures. This should expose what	
investment should be undertaken regardless of future	
circumstances.	
As part of this evidence, Cambridge Water should clearly	We have included this detail in section
set out the impact of the Ofwat common reference	11.7 of the revised draft WRMP, entitled
scenarios compared to the 'most likely' scenarios on	Scenario Testing.
which the preferred plan is based. This should include	
quantifying the impact on demand of the low and high	
scenarios for climate change, demand, and abstraction	
reductions across the planning period. The company	
should also quantify the estimated impact on the	
expenditure requirement of:	
 planning based on the high scenarios for climate 	
change, demand, and abstraction reductions, and the	
slower scenario for technology; and 2) planning based	
on the low scenarios for climate change, demand, and	
abstraction reductions, and the faster scenario for	
technology.	

This will allow for improved understanding of the drivers	
of investment, the sensitivity of the plan to future	
scenarios and confidence in the investments being	
proposed. The company should use the results of this	
testing to identify and justify with sufficient and	
convincing evidence low regret investments, rather than	
Just ones that meet both high and low planning needs in	
a non-adaptive way	
Cambridge water has not presented a single plan with	we have included a new section in the
one preferred pathway of solutions and a set of	revised draft WRIVIP, section 11.6, which
alternative investment options with trigger and decision	clearly outlines our preferred plan. We
points. This should be presented in the final plan. The	have also provided additional detail in
final plan needs to present clearly the preferred, core	section 11.8 regarding our adaptive
and alternative programmes scheduled throughout the	planning and pathways.
planning horizon. This should include the final size, yield	
and operation of the solutions including the strategic	
schemes. As discussed earlier in this section and	
previous section, we have concern that this is due to a	
limited number of options restricting the ability to	
develop different pathways.	
Cambridge Water states that it has tested against high	we have included further detail on the
and low compound versions of all the Ofwat common	outputs of this testing in our revised draft
reference scenarios and that this does not result in any	WRMP in section 11.7.
change to the preferred plan. However, there is no	
evidence to explain how the company has reached this	
conclusion or where the company has presented this	
data. The company should present this evidence in the	
final plan	
We are concerned that Cambridge Water has not	We have had discussions with our local
applied our approach for testing the low abstraction	Environment Agency team in order to
reductions scenario and there have been no local	determine a plausible "extreme low"
reviews to adjust for uncertainty. Given that abstraction	scenario. However, the local EA team
reduction is a key driver of the supply-demand deficit,	deemed that the BAU+ scenario is the
Cambridge Water need to test this scenario in its final	lowest scenario they believe will be
plan, in line with our guidance, to help demonstrate	required, and therefore there is no lower
options are low-regret. This scenario should 'assume	scenario to test. We have included detail
only currently known legal requirements for abstraction	on our scenario testing in section 11.7.
reductions up to 2050'. Following the approach agreed	Due to our unique geology of nearly 100%
between Ofwat, the Environment Agency and the	chalk stream abstraction, there is little
regional water resources planning groups, companies	difference between the existing
should:	environmental destination scenarios as all
 include agreed water industry national environment 	scenarios ensure protection for these
programme (WINEP) changes and licence capping; and •	environments.
use the agreed BAU+ scenario to form a long-term view,	
but use local reviews to remove licence reductions with	
significant uncertainty, to form a plausible 'extreme low'	
scenario	

	•		
In its final plan, Cambridge Water should also clearly	We have included information on the		
explain how it has tested the Ofwat common reference	scenarios tested in section 11.7 of the		
scenarios for technology	revised draft WRMP.		
The plan links to PR24 and refers to PR24 throughout	We have included a comparison to		
the document. There is no indication about the scale of	WRMP19 costs in the revised draft WRMP		
investment compared to WRMP19. The query response	in chapter 12.		
indicated a significant change in investment from			
£75.9m NPC in WRMP19 to £352.8m NPV in draft			
WRMP24.			
The company should provide sufficient and convincing	The preferred options selected have been		
evidence that the preferred options being selected,	selected using the WRE EBSD model, and		
across all areas of its plan, are best value in its final	these results have been refined using our		
WRMP24. The company should ensure costs are	Valuestream model where the least cost		
reliable, efficient, and appropriately allocated, and	option(s) may not be the only available		
continue to refine and develop detailed bottom up cost	option to produce a preferred plan.		
profiles to ensure a greater level of maturity of costings.	We have costed our supply options using a		
Cambridge Water should engage with the market	robust methodology using industry		
further to support this work.	standard models (TR61, WRc) and our		
	WREMP19 cost models (Atkins), COPI		
	uplifted accordingly. Thes costs are		
	bottom up and modular as far as is		
	possible, and representative of the		
	maturity of the options, and will continue		
	to be refined for options as they are		
	developed. The full methodology is		
	available on request (subject to		
	commercial confidentiality) - 5211472-		
	ATK-RP-7.9-074 CAM dWRMP24		
	Methodology for Estimating Option Costs		
	V2.		
Cambridge Water has not presented the draft WRMP's	We have included a new section in the		
impact on customer bills to support the consultation	revised draft WRMP, section 12.3, which		
and help stakeholders come to an informed opinion.	details the proposed bill impact. We also		
This is particularly important given the scale of	discuss here the opportunities for co-		
investment being presented in the context of the size of	funding and co-delivery.		
the company. We expect the company to provide			
sufficient and convincing evidence that the estimated			
bill impacts of the programme (and other areas of			
investment for PR24) has informed customer			
engagement and choices around policy drivers and			
therefore scheduling of investment in the final WRMP			
However, there is limited evidence provided to give	We have undertaken additional work with		
confidence that customers fully understand and support	customers on this topic through our PR24		
the approach on areas such as the need for investment	engagement work as we prepared our		
and the proposed solutions. Cambridge Water should	business plans. We have developed an		
provide evidence that customers have enough	additional appendix to document this.		
information, particularly on the development of the			

Fens reservoir, including alternatives and its contribution to addressing the water need. We would expect to see further clarity on this, and potentially further work reflected in the final WRMP	
The draft WRMP presents limited detail on partnership opportunities to enable co-funding and co-delivery. This should be detailed further in the final plan	We have included additional detail on this throughout the revised draft WRMP.
In the final plan, we expect to see evidence of assurance on Cambridge Water's understanding and acceptance of the approach to licence capping. This is to ensure the risk and impact this imposes to Cambridge Water is fully understood in the context of the largest drivers of future investment in the plan and the uncertainty that still surrounds this.	 We have provided more detail regarding the licence caps in section 6.9.6 of the plan. Here we have provided the following: Detailed which licences are impacted and the catchments affected Shared the licence cap impact to DO for each licence Confirmed the date of implementation as 2030, excepting those time limited licences which will be impacted before this Shared impact on plan of these caps and any cost implications as a result Shared our Board engagement on this topic and confirmation of approval
As identified above, the draft WRMP programme for 2025-30 represents a significant uplift in expenditure compared to the PR19 programme. For its final WRMP we expect the company to provide sufficient and convincing evidence that the Board has challenged and satisfied itself that the WRMP and the expenditure proposals within them are deliverable in the context of the wider PR24 business plan proposals. The company should also demonstrate that it has put in place measures to ensure that the plans, of which the WRMP forms a key part, can be delivered	We have included a new section in our revised draft WRMP, section 11.3, which outlines how we will deliver and report our demand management options. We have also added a new section, 11.5, in the revised draft WRMP that outlines how we will deliver the supply side options outlined in our plan. We have also expanded section 2.14 which relates to governance and assurance of the plan to outline the full extent of Board involvement and approval.
In its final WRMP South Staffs Water should: clearly state the objectives of the plan and provide clear line of sight from the best value metrics to the plan objectives.	 We have included these objectives in the summary of Chapter 2 of our plan. These objectives are: Deliver a sustainable and resilient supply of water for both our

 household and non-household customers now and in the future. Commit to reducing the amount of water we abstract from the environment over the lifetime of the plan in order to protect and enhance the natural environment in which we operate.
 Identify the longer term uncertainties e.g. climate change, and, if required, provide adaptive pathways within the plan in order to ensure we can respond to future challenges. Be acceptable and affordable for our customers.

3.20 Strategic Panel & Committees

Consultation Comment	Response
The NHH market must be fully integrated into these	In our draft WRMP, we included a 9%
plans [WRMPs] as business customers represent a	reduction in NHH consumption by 2038,
significant opportunity to reduce demand and as the	aligned with the proposed target in the
majority of NHH customers use water for the same	Environment Act. Since then, this target
purposes as household customers (taps and toilets).	has been confirmed and we have also
	included additional NHH consumption
	reduction activities in our revised draft
	WRMP in order to support this work and
	achieve a 15% reduction by 2050.
	We have also proposed that both the
	smart metering rollout and water
	efficiency audits will be undertaken across
	both household and non-household
	customers in the same area, where this is
	appropriate e.g. for local businesses such
	as hairdressers, shops etc. We believe
	there are similarities between the
	requirements and efficiencies to be had by
	combining these activities in a
	geographical location. We will continue to
	work with retailers to enable this activity.
I urge all water companies to clarify their plans for NHH	We have included additional detail in our
smarter metering and water efficiency within their final	revised draft WRMP on our NHH
	consumption reduction plans and this can

WRMPs and ensure engagement with the market is at a	be found in section 11.1.4 of the main	
Board level.	document.	

3.21 Waterwise

Consultation Comment	Response
We query the water efficiency costs in Table 37 which	We have reviewed and updated our water
show minimal costs incurred after AMP8 with no water	efficiency activities and spend in the
efficiency programme costs included in AMP9 and	revised draft WRMP. More detail on this
AMP10. We do not believe that it is tenable, given the	can be seen in our data tables and in
water availability pressures the company faces, for it to	section 11.1.3. of the main plan.
have included no budget to support water saving	Our revised draft WRMP now shows that
between 2030 and 2040. For example with the planned	we will be undertaking household water
roll-out of smart meters through to 2035 a budget needs	audits throughout AMP8 and AMP9 and
to be included to proactively engage with customers on	have committed funding through the
their consumption through an app or digital portal. We	remaining AMPs to ensure this level of
also believe there will need to be household water	water saving is maintained through this
saving visits in AMP9 and AMP10 to capture new homes	activity.
and also people moving into existing properties in the	
area.	
Other areas where we think investment would be	We have included costs in our plan to
worthwhile include:	deliver the water efficiency savings
	required, and an element of this work
- We would like to see fundings to support a campaign	involves communication and promotion of
on leaky loos. One possibility would be to work on a	water saving devices and actions. We have
collaborative campaign on leaky loos with other water	undertaken campaigns on leaky loos
companies, the BMA and Waterwise as recommended in	through AMP7 and are doing some
our position statement.	additional work as part of our household
- We would encourage Cambridge Water to also include	water audit programme to identify these
a campaign to raise awareness on dual flush toilet	further. We will continue to build on this
buttons. Research by ESW has found 20% of people	in AMP8 and beyond.
incorrectly identify which is the small flush button in	We were part of a collaborative bid for the
their own homes.	Ofwat Innovation Fund relating to flow
 A number of water sector trials across the UK (Sussex, 	regulators, which unfortunately was
Affinity, NWL, UU) are finding that flow controllers can	unsuccessful. However, we have plans to
reduce consumption by around 30-64 litres per property	continue with this work in AMP7 through
per day. Although Cambridge Water note that they are	our water efficiency programme, and if
seeking Ofwat Innovation Fund money to trial such	this is successful, we will continue to build
devices, we would like the company to commit to do	on this through future AMPs.
this anyway if the fund bid is unsuccessful. For example	
they could be fitted alongside the meter as part of the	
metering roll-out or alternatively in all new build	
homes/on change of occupancy. As well as targeting	
new build Cambridge Water could also work with local	

We fully support the proposed universal smart meterWe have included costs in our plan to	authorities and housing associations to install them in social housing.	
 roll-out to HH and NHH properties and that this is brought forward to 2033 following successful granting of Accelerator funds). However we believe the company should be going faster than this and should complete its roll out by 2030. Our research coupled with the experiences of Anglian and Thames Water to date have shown that smart metering is a game changer when it comes to reducing leakage and engaging with customers be set out in the final plan. As highlighted above it is also important that Cambridge Water include a budget to use the insights from the smart meters to engage with HH and NHH customers on water saving. As part of our optimisation, we have assessed delivering the universal metering in programme by 2030. However, there are several reasons that we do not believe the is a viable option: We have developed our plan with our supply chain to ensure that it is deliverable – accelerating the proposed programme would create supply chain to ensure that it is deliverable accelerating the proposed programme subticus metering programmes. This is putting a strain on meter stock, which is exacerbated by current world affairs. Several companies have ambitious metering programes between 2020 and 2025 and found delivery challenging – we have liaised with these companies to understand the lessons learned and ensure w build a plan that reflects these. In Cambridge we already have a higher level of metering penetration than the industry average at 74%, and we achowledge that 100% will not be fully achievable due to shared supplies and other complexities, but believe our plan is ambitious and deliverable. 	We fully support the proposed universal smart meter roll-out to HH and NHH properties and that this is brought forward to 2033 following successful granting of Accelerator funds). However we believe the company should be going faster than this and should complete its roll out by 2030. Our research coupled with the experiences of Anglian and Thames Water to date have shown that smart metering is a game changer when it comes to reducing leakage and engaging with customers on water use and water wastage; these benefits need to be set out in the final plan. As highlighted above it is also important that Cambridge Water include a budget to use the insights from the smart meters to engage with HH and NHH customers on water saving.	 We have included costs in our plan to deliver the water efficiency savings required, and an element of this work involves communication of the data insights from metering to provide customers with information, advice and support to help make informed choices around their water usage. We will also deliver more targeted information and campaigns. As part of our optimisation, we have assessed delivering the universal metering programme by 2030. However, there are several reasons that we do not believe this is a viable option: We have developed our plan with our supply chain to ensure that it is deliverable – accelerating the proposed programme would create supply chain issues with resources to deliver and meter availability. All companies have ambitious metering programmes between 2020 and 2025 and found delivery challenging – we have liaised with these companies to understand the lessons learned and ensure we build a plan that reflects these. In Cambridge we already have a higher level of metering performed and ensure we acknowledge that 100% will not be fully achievable due to shared supplies and other complexities, but believe our plan is ambitious and deliverable.

We are pleased to see that Cambridge Water recognises the potential contributions to demand reduction from government policies such as water labelling of water using products (not just white goods as referred on p81) and have included this in the baseline forecast. We are asking all companies to include a budget in their final plans to support/promote the roll-out of water labelling in AMP8 helping to explain to their customers why it is important and how they can use the label. The trial of an incentive scheme could also be considered. There are further opportunities to secure additional savings through more ambitious policy with regards to new build development and retrofit and we would urge Cambridge Water to continue to work with Waterwise to advocate for more supportive policies.	We have included costs in our plan to deliver the water efficiency savings required, and an element of this work involves communication and promotion of water saving devices and actions. This would include water labelling.
We are pleased to see dWRMP24 plan recognise the recent policy and regulatory announcements around reducing NHH water demand. It is also positive that a budget has been included in the plan to deliver savings in collaboration with retailers. This is not the case with many of the draft plans of other water companies. Whilst it is good to see that the government's 9% can be achieved through the Cambridge Water metering programme we believe that it is also important that government, water retailers, trade bodies and other players also collaborate to help achieve or exceed the 9% reduction and this could be flagged more clearly in the final plan.	For our revised draft WRMP we have updated our demand forecasts by working with local planning authorities and collating employment projections. For NHH this has led to an increase in the demand forecasted – by 2038 NHH demand will have increased 55% from the 19/20 baseline level. In order to deliver a 9% reduction, all of this new NHH growth would have to be water neutral as well as reducing consumption across existing properties. Our work has shown this is not possible. As such, we are proposing to deliver a 9% reduction from the 2038 forecasted position and a 15% reduction from the 2050 forecasted position. In our revised draft WRMP we have further emphasised the importance of collaborative working and are supportive of the proposal to create a RAPID style approach for demand management, titled ARID. We believe that a national approach is required to ensure effective and efficient delivery of the NHH target to ensure clear communication and standardised approaches for retailers and our NHH customers. We are working closely with Greater Cambridge Planning, the Environment Agency and Defra to ensure that the growth in the Cambridge region is

	sustainable. We are working with the new Water Scarcity Working Group that has been convened by the Department for Levelling Up, Housing and Communities, the Environment Agency, Ofwat, central and local government and innovators across industries to accelerate plans to address water scarcity in the area. As part of this work we are exploring the role all sectors must play in ensuring the development is sustainable and the options and opportunities we can explore to achieve this. This proposal it outlined here Long-term plan for housing - GOV.UK (www.gov.uk)
A portion of the potential deficit in the Cambridge Water area is driven by future decisions on the type and location of future development. We are pleased to see the company plans to continue with its developer incentive scheme and will seek further reductions through support to schemes such as water neutrality and grey/rainwater reuse systems. Thames Water has a good existing example of an incentive scheme that does this.	We have seen the value of this scheme throughout AMP7 and are keen to continue and develop this as we move forwards. We have engaged with companies such as Thames Water to understand best practice and look to build on this.
At Waterwise, we're committed to driving equity and preventing discrimination at work and in the work we do. A great deal of our impact is delivered through challenging others through consultations such as this to ensure equity, diversity and inclusion has been considered in all policy and planning decisions. We encourage as you develop the final plan to consider the impacts on social wellbeing and how you will understand impacts of decisions on the diverse members of the Cambridge Water customer base.	We endeavour to ensure that all of our plans take into account our diverse customer base. We acknowledge the potential bill impact of our plan and have developed our support offering relating to affordability, as well as accessibility, through our development of our PR24 plan. Through our customer engagement, we have ensured we have included a wide range of customer backgrounds and situations to ensure our plan is considered and weighed against a diverse range of needs and preferences. We will continue to engage widely across our customer and stakeholder base to ensure all views are represented and understood in this plan and all others we undertake.

4. Environment Agency WRMP Evidence Report

Area of issue	Issue and evidence	Implications	Information or changes	Cambridge Water
			required	Response
Recommendation 1:				
customers, support g	rowth and protect the envir	onment by making significant	improvement to its plan.	
R1.1: Planning for a	The Environment	If the company does not	The company must	We have reviewed an
secure, sustainable	Agency (EA) does not	take action to improve	demonstrate that its plan	exhaustive list of options
supply of water.	have confidence that	the plan there is a	safeguards the environment	available to ensure that
	the draft plan can	significant risk of damage	and has sufficient supplies to	we have sufficient supply
	achieve its	to the environment and	meet demand and support	and the environment is
	responsibilities to	to security of supply.	growth in its supply area	protected. Our original
	secure supplies to meet		across the planning period.	list of options number
	demand and protect the	If the company's		over 130, and a robust
	environment. Baseline	preferred programme of	It is the company's	screening process has
	dry year water demand	demand management	responsibility to produce a	reduced this to our
	exceeds available	and supply options	plan that provides a secure	current list of feasible
	sustainable supplies in	cannot be delivered, and	supply of water expected by	options, which the
	the short term and the	there are no alternatives	customers and to protect the	Environment Agency
	company forecasts	available, there is a risk	environment.	inputted to.
	significant household	of supply deficits		
	and non-household	affecting both security of	The plan must deliver	Our plan includes no
	growth.	supplies to existing and	statutory environmental	material increase to
		new customers, and a	obligations, including	demand from 2025
	The EA has very	risk of abstraction	preventing deterioration in the	through the rapid
	significant concerns	increasing at sources of	status of water bodies, reflect	implementation of
	about the high level of	supply that could cause	local growth ambitions and	demand management
	risk in the company's	deterioration in the	plan to meet the additional	measures, for which we
	preferred plan. The plan	status of water bodies.	needs of new businesses and	have taken a realistic
	relies on demand		households.	view of the savings
	management, drought			achievable and delivery,
	measures, and supply		The EA expect substantial	incorporating risk and

options that the	improvements to the draft	uncertainty. The growth		
company has not	plan and the	forecasts that we have		
demonstrated it can	recommendations in this	applied include those		
deliver effectively and	report to be implemented.	aspirations up to 2040 for		
that carry a high risk of	This includes providing	growth identified in the		
failure. The plan has no	confidence that the preferred	local emerging plan. The		
credible alternative	plan can be delivered and	measures that we have		
solutions if the	accelerating all measures	proposed are		
preferred options	required to manage the risk of	implemented as soon as		
cannot be delivered and	causing deterioration in the	practicable, in		
does not demonstrate it	status of water bodies.	accordance with		
can adequately manage		producing a best value		
the risk of abstraction	The company should develop	plan. We are proposing		
causing deterioration in	alternative options to manage	IROPI dispensation for 2		
the status of water	the risk to security of supply	years in 2030-32 as a		
bodies.	and the environment if its	result of licence		
	preferred plan cannot be	reductions proposed to		
The company needs to	delivered and ensure these are	prevent deterioration.		
make significant	progressed so that are	The reductions that we		
improvements to the	available as soon as they are	are applying are 18 Ml/d		
plan to demonstrate it	needed.	or 20% more than we had		
can meet demand and		expected for WRMP19;		
support planned growth		this step change and the		
whilst maintaining		availability and lead time		
abstraction to levels		of options is the primary		
that will not risk causing		reason for the 2 year		
deterioration in the		IROPI case. There are no		
status of water bodies.		alternative , best value		
		options that could be		
		delivered to remove the		
		need for the IROPI case		
		which is c.10Ml/d in a dry		
		year planning scenario.		
Recommendation 2: Demonstrate that the risk of environmental deterioration in status of water bodies can be				
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managed, including n	naintaining abstraction to h	istoric limits at sensitive sites.		
R2.1: Your role in	The EA is highly	There is a significant risk of	The company should	Our plan sets out how we
achieving	concerned that the plan	causing deterioration in the	demonstrate it has a credible	will manage the risk of
sustainable	does not demonstrate it	status of water bodies if the	plan to manage the risk	deterioration by applying
abstraction.	will meet statutory	company increases	causing deterioration in the	licence caps as soon as
	obligations under the	abstraction from sensitive	status of water bodies in each	we are able to whilst
	Water Environment	groundwater sources. This	water body affected by its	maintain our duty to
	(Water Framework	risks the plan breaching its	abstractions.	supply. This includes
	Directive) (England and	statutory environmental		rapid demand
	Wales) Regulations 2017	obligations under the Water	The company should include a	management that offsets
	to prevent the risk of	Environment (Water	new annex to the plan setting	all planned growth in
	deterioration in the	Framework Directive)	out in detail the actions it will	AMP8 and
	status of waterbodies.	(England and Wales)	take at each source of supply	implementation of supply
		Regulations 2017.	to prevent environmental	options as soon as they
	The company has		impacts.	become available.
	consistently reported	If the company is unable to		
	demand above that	demonstrate that it can	This should include how the	We are working closely
	forecast in its current	manage the risk of causing	company's demand and supply	with the EA and local
	and previous WRMPs	deterioration in the status of	measures will help to manage	planners to ensure that
	and there is evidence of	water bodies, the	abstraction to within	current abstractions are
	a sustained increase in	Environment Agency may	sustainable limits and set out	assessed for the impact
	abstraction at most of its	need to use its regulatory	how alternative options will be	that they may have on
	groundwater sources.	powers to make changes to	used if the preferred plan	individual waterbodies,
	The plan also forecasts	the company's abstraction	cannot be delivered or does	and collectively propose
	that demand will	licences to ensure the	not deliver the assumed	mitigation measures to
	continue to rise in the	environment is protected.	supply and demand benefits.	manage deterioration,
	short term (to 2030) and	This may result in supply-		targeted at the most
	this risks further	demand deficits and the	The plan should set out further	sensitive sites. Our plan
	increases in abstraction.	company being unable to	measures needed to avoid,	shows that demand will
		meet demand and support	reduce or mitigate the risk	not materially increase
	This poses a significant	growth.	causing deterioration in the	during a dry year, and
	risk to the environment		status of water bodies,	that we are able to apply

and has resulted in the	including catchment-based	the required licence caps
EA having to object to	solutions. It should also set out	to prevent deterioration
new major developments	how the company will monitor	by 2032. Our separate
in the company's supply	and report the success of its	WINEP proposals include
area unless they can	preferred demand and supply	a significant programme
demonstrate increased	measures and act to change its	of chalk steam
water demand will not	actions if they are not	restoration where
risk deterioration in the	successful.	abstraction pressures can
status of water bodies.		be offset by reducing
		other pressures in a
There is evidence that		quicker timescale.
water bodies in the		
company's supply area		We intend to closely
including chalk streams		monitor implementation
are being affected by the		of our preferred plan to
abstraction of		ensure it is successfully
groundwater which the		delivered, and our
company is using to		proposals include
supply existing homes		allowances for
and businesses.		uncertainties. We will
Investigations confirm		report on our
that ecology is sensitive		performance through
to flow and abstraction.		annual WRMP reviews
Several water bodies are		and we include more
failing to support good		detail on how we propose
ecological		to monitor and report our
status/potential due to		demand management
abstraction, for example		progress in chapter 11.3
the river Granta, and that		of the revised draft
there is a significant risk		WRMP.
of deterioration in		
ecology occurring if		Our abstractions will be
abstraction increases.		reduced and managed to

				ensure that all the licence
	The company should set			cans are met by 2032
	out in its plan how it will			and that there are no
	manage the risk of			material increases to
	causing deterioration in			abstraction from 2025
	the status of			We have already
	waterbodies at each			implemented protection
	source where abstraction			to flows at times of stress
	bac been linked to			in torh Cranta in
	nas been linked to			In tern Granta, In
	affecting the ecology of			agreement with the EA to
	water bodies and			support the needs of the
	wetland sites. The			ecology. We are unaware
	company should set out			If other abstractors may
	all measures required to			not have the same
	keep abstraction to			restrictions applicable to
	within sustainable limits			licences.
	and to avoid, reduce and			
	mitigate the risk of			
	environmental impacts.			
Recommendation 3:	Accelerate and develop pre	ferred supply options to provid	e confidence they can be	
delivered and will be	available to mitigate the ris	ks to security of supply and the	e environment.	
R3.1: The plan does	The company has	Without timely and	The company should:	Our supply options are all
not demonstrate	identified the need to	sufficient supply options the	 accelerate its supply options, 	new for WRMP requiring
why supply options	develop new supply	company cannot manage	so that the risks of causing	significant planning,
cannot be	schemes at pace or it	known risks, ensure security	deterioration in the status of	infrastructure and
developed more	risks failing to meet	of supply, and reduce the	water bodies are avoided, or	investment. Our
quickly.	demand, support	risk of causing deterioration	reduced, and any potential	preferred plan has
	growth, and deliver its	in the status of water	impacts mitigated	selected all best value
	statutory environmental	bodies.	 bring forward its existing 	options as soon as they
	obligations.	If any of the company's	options where these form part	are available, and we
	The company has	schemes are accelerated,	of a best value plan or are	forecast the earliest
	submitted some supply	the current representation	needed as alternatives to	available date with the
	schemes to be	of these schemes in the plan	manage risks to security of	most recent knowledge

			r
considered for	will not be fully accurate and	supply and the environment in	of the scheme
acceleration in the	will need to be updated.	its preferred programme	requirements.
remainder of AMP7. An		 ensure its plan takes account 	
announcement on the		of any decisions on its scheme	Through the Defra
outcome of this		acceleration proposals where	accelerated spend
acceleration process is		applicable	proposal we submitted a
expected in March. The		 actively work with Anglian 	bid to accelerate the
EA is however concerned		Water and WRE to progress	Grafham Transfer.
that the company is not		the Fens Strategic Resource	However this was
accelerating more of its		Option (SRO) and confirm the	rejected following
preferred options and		feasibility and affordability of	concerns from the
has not justified why		the option and provide	Environment Agency
work cannot start now		regulators with confidence	regarding the reliance of
on detailed feasibility		that this provides a low regret	this water on a drought
and planning, so they are		investment for customers.	permit. As a result, we
'shovel ready' once			have worked with Anglian
funding is secured for		Until these actions are	Water and Affinity Water
their delivery.		completed, the EA is unable to	to determine another
The EA expects all		assess if the plan and	more sustainable source
feasible supply measures		preferred solutions present a	of water to enable this
to be delivered as quickly		best value outcome for	transfer; however this
as possible where there		customers and stakeholders	causes a delay to the
is a risk to security of		and can demonstrate the risk	availability as it relies on
supply, or where the		of environmental deterioration	the completion of the
company has identified a		occurring can be managed	Minworth and GUC SRO
risk of causing		effectively.	schemes which is
deterioration in the			forecasted to be 2032. It
status of water bodies.			does however deliver a
			larger volume of water.
			We continue to work
			closely with Anglian
			Water and WRE to

R3.2: Improve the	The level of detail	The lack of progress on	The company should	progress the Fens Reservoir SRO, which we are fully committed to. The feasibility of the scheme has been through a robust process of modelling and simulating options within the region, followed by extensive site selection and best value assessments. This work is all available through WRE, of which the EA are a key stakeholder. We have provided
level of detail	presented in the plan for	developing preferred	improve the level of detail	additional detail on this in
preferred supply	options is limited. The	and stakeholders cannot be	supply options by:	which will be submitted
options and set out	company's preferred	confident that these are		on September 29 th 2023.
a full programme of work required to demonstrate they	supply options are not well developed, and individual options may	feasible or will deliver the assumed benefits.	 setting out a detailed programme of work to urgently progress 	
can be delivered as	not be feasible or yield	Any delay in delivering the	development of its	
soon as possible.	the assumed supply benefits	preferred supply options	preferred supply	
	Schellts.	supplies and the	conducting detailed	
		environment.	deliverability appraisals of its	
			options to better understand	
			technologies, planning	
			timescales and	
1			constructability.	

R3.3: Provide	The proposed transfer of	The lack of detail provided	The company should:	We are confident this can
utilisation details of	water from Anglian	in the plan means customers	 provide detailed 	be delivered as planned
the proposed	Water is a vital resource	and stakeholders lack	information on	and we continue to work
Anglian Water	option needed to provide	confidence in the option's	planning and	closely with AW on the
transfer and confirm	security of supply in the	feasibility, deliverability,	construction	programme. The
that Cambridge	short to medium term	utilisation, and the	timescales of this	strategic pipeline
Water can utilise all	and help the company	timescales in which will be	option and provide	providing the transfer will
available water as	manage the risk of	delivered.	confidence it will be	be available from 2030,
soon as the scheme	causing deterioration in		delivered as planned	therefore the Grafham
is completed.	the status of water	The company may not be	 provide utilisation 	resource can be freed up
	bodies. Despite this	able to utilise all available	details of the	by Affinity when the GUC
	importance, the plan	water if there are delays to	proposed transfer and	option is developed and
	does not provide	investment in a new	confirm that it can use	available in 2032.
	detailed information on	treatment works.	all available water as	We intend to fully utilise
	the feasibility and	Any delay in delivery, or not	soon as the scheme is	the available DO from the
	utilisation of the option.	being able to fully utilise the	completed.	Grafham option, now up
		option poses a major risk to		to 26MI/d, which will
	The EA has significant	security supplies and the		allow us to make all
	concerns that the	environment.		required licence
	company may not be			reductions to avoid any
	able to utilise all			risk of deterioration.
	available water as soon			
	as the scheme is			Our options include all
	completed. It is likely			the required additional
	that investment in a new			treatment for enabling
	treatment works is			acceptable water quality
	required to ensure the			for the transfer to be in
	company can make full			place by 2032. There is
	use of the transfer. The			no need to further
	treatment works is an			accelerate the
	enabling option and will			constructions works
	reduce the risk of water			which will be completed
	quality changes and the			in AMP8 ready for the

				1
	potential impact on			water to be available in
	customers from mixing			2032 in AMP9.
	surface and			
	groundwater. However,			
	the plan does not			
	confirm if this is needed			
	and how the company			
	will progress work to			
	confirm if it is required			
	and deliver the option in			
	a timely way. As this key			
	piece of infrastructure			
	may take several years to			
	build, the company			
	should accelerate any			
	work required so there is			
	greater confidence it can			
	be delivered as quickly as			
	possible and enable full			
	use of the proposed			
	import.			
Recommendation 4:	Develop a fully costed and d	deliverable alternative plan or	pathway for if important supply	
and demand options	are not delivered.			
R4.1: Lack of	The company has not	Without sufficient supply	The plan should:	Due to changes in the
alternative options.	set out a 'Plan B' to	options the company		transfer option
	show what actions it will	cannot manage known	• set out available	availability, we have
	take to protect the	risks, ensure security of	alternative options to	included an adaptive
	environment and public	supply, and reduce the	provide secure	pathway which would be
	water supply should	risk of causing	supplies, including	a least preferable
	supply options (Anglian	deterioration in the status	alternatives to the	alternative as it would
	Water transfer and Fens	of water bodies.	Anglian Water	leave residual risk to the
	reservoir SRO) be		transfer and Fens	environment. This is
	delayed or not delivered	If the company's preferred	reservoir options	

and/or if the preferred demand management options fail to deliver the required water savings. Given the level of risk in the company's preferred programme, it is vital that the company works with neighbouring water companies and WRE to develop alternative supply options. The company should be progressing feasibility	supply schemes cannot be delivered, or if savings from demand management measures are less forecast, the company is very likely to have a supply- demand deficit. This risks the company increasing abstraction at groundwater sources to meet demand that could cause deterioration in the status of water bodies and/or that it is unable to meet demand and support growth.	 provide a detailed programme of how it will progress these alternative options so that they are 'shovel ready' as soon as possible work with Anglian Water and WRE to confirm which option(s) are most likely to be progressed as alternatives and how these can help deliver a best value outcome for customers. This should include consideration of the size of the Lincolnshire Reservoir option and if a 	outlined in section 11.8 of the revised draft WRMP. The detailed programme for Fens is available through WRE and the RAPID delivery team for the SRO – it is not appropriate to fully replicate this detail in our plan which utilises the supply immediately once available in 2036 as a transfer. Use of the SLR reservoir is not appropriate for
companies and WRE to develop alternative supply options. The company should be progressing feasibility work now on potential alternative supply-side options so that they are ready to be implemented if the demand-side options fail to deliver expected savings or preferred supply options cannot be progressed. WRE's draft regional plan and Anglian Water's draft WRMP bave identified that	water bodies and/or that it is unable to meet demand and support growth.	 best value outcome for customers. This should include consideration of the size of the Lincolnshire Reservoir option and if a larger reservoir can support increased transfers to Cambridge Water and if desalination should be a preferred option work with WRE and WRSE to explore if WRSE / Affinity Water can support a transfer (both as a short-term and long- term solution) to the company through the delivery of alternative 	available in 2036 as a transfer. Use of the SLR reservoir is not appropriate for Cambridge as there would be downstream storage implications and limitations on the amount of water that can be used. WRE has modelled the least regret, best value options for the region and demand centres, and Fens is selected for Cambridge in all scenarios. De- salination is considered a less preferred alternative due to the cost and
have identified that desalination is the		SRO and other options.	due to the cost and additional environmental

most likely alternative		risk and is
option if the Fens		explored/included in the
reservoir cannot be		regional plans for a high
delivered, but both		growth, high
plans lack detailed		Environmental
specific proposals of		destination scenario. We
when, where, and how		have explored other
big the option(s) will		feasible options outlines
be. Cambridge Water,		in our plan which get
Anglian Water and		rejected on best value
WRE should set out		basis.
detailed proposals for		
feasible alternative		We have explored the
options(s) to the Fens		use of different transfer
reservoir and to be		options supported by
ready to deliver these		regional SROs, however
when and if they are		these are either fully
needed.		committed elsewhere in a
		better value situation or
Cambridge Water's		are unsuitable in
draft plan has not		infrastructure terms and
clearly set out if		location or timing of
Affinity Water and		need. This includes the
WRSE can support a		use of a range of GUC
transfer to the		options, which are now
company as an		included as a preference
alternative to the Fens		for supporting the
reservoir and		Grafham transfer from
proposed Anglian		AW to Cambridge which
Water transfer. The		is a good example of a
company has		regional scheme and
identified bulk		companies working
transfers from		

	neighbouring water			together to enable the
	companies in its			best value option.
	unconstrained options			
	list, but these were			
	rejected. The process			
	of and reasons for			
	rejecting inter-			
	regional/company			
	transfers is difficult to			
	follow and			
	understand.			
	Affinity Water is			
	pursuing its own			
	options, including the			
	Grand Union Canal			
	(GUC) transfer SRO that			
	could be available by			
	2035. This could			
	generate a surplus for			
	export, or enable			
	resources currently			
	exported from Anglian			
	Water to Affinity Water			
	to be re-deployed to			
	support Cambridge			
	Water.			
Recommendation 5:	Demonstrate that the prope	osed use of drought measures	will be effective in helping	
manage the risk of er	vironmental deterioration	in status of water bodies and v	vill help maintain security of	
supplies.				
R5.1: Lack	The draft plan includes	Managing demand in	The company should:	We are currently
confidence that	the benefit of demand	periods of dry weather is		reviewing our drought
proposed drought	savings from its level of	an essential part of helping	complete work to revise	triggers and levels of

measures will	service drought	to limit increases in	its drought triggers to	service to determine if
effectively meet	measures and includes	abstraction and managing	demonstrate how it will	changes are applicable.
demand and	these as options to help	the risk of causing	apply drought measures	This is being undertaken
manage the risk of	maintain a positive	deterioration in the status	to effectively manage	in parallel with the
environmental	supply-demand balance.	of water bodies.	abstraction to help	WRMP and is not
deterioration	The assumed demand		manage the risk of	expected to materially
occurring.	savings are an essential	Until the company can	causing deterioration in	change the WRMP, and
	part of the company's	show that is can apply its	the status of water	requires sufficient
	plan to avoid deficits	drought measures to help	bodies. This should	consultation with
	ahead of the proposed	manage abstraction to	include worked	stakeholders. We are
	Anglian Water transfer	within sustainable limits,	examples showing how	committed to engaging
	and Fens reservoir SRO.	the EA cannot be	demand will be reduced	with the EA and other key
	However, the EA lack	confident it can meet	in dry weather and how	stakeholders as we
	confidence that the	current demand and	this will be effective in	progress through this
	company can effectively	forecast growth without	managing abstraction at	work.
	apply its drought	risking causing	sensitive sites	
	measures to manage	deterioration in the status	 set out how any 	Our current drought plan
	demand and the risk of	of water bodies. This	required changes to	has been approved by
	causing deterioration in	presents an unacceptable	drought triggers affect	Defra. It includes
	the status of water	risk to the environment	the company's levels of	reductions to
	bodies.	and security of supply.	service and consider if	abstractions as yields
			this constitutes a	recede, and use of peak
	The company's current		material change to its	available licences as per
	levels of service are high		plan that requires	EA proposals for a rolling
	compared to		further consultation	6 year licence.
	neighbouring companies,		with customers.	
	and the company has			Our assumed demand
	benefited from having			savings are equivalent to
	access to spare capacity			those seen for recent
	(headroom) in its			TUBs implemented
	abstraction licences to			elsewhere and those
	meet increased demand,			seen historically with
	including in dry weather.			appeals for restraint and

However, increased		TUBs in our WRZ. The
abstraction and use of		values included in our
this headroom risks		plan directly reflect our
causing deterioration in		current drought plan.
the status of water		
bodies and the company		
can no longer rely on		
licence capacity to meet		
increasing demand and		
must demonstrate it can		
maintain abstraction to		
within sustainable limits.		
To maintain abstraction		
to within sustainable		
limits, the Environment		
Agency believes the		
company will need to		
apply its level of service		
drought measures more		
frequently and that this		
could affect its current		
levels of service. The		
company should update		
its drought triggers to		
improve confidence that		
its drought measures will		
be effective in managing		
demand and the risk of		
causing deterioration in		
the status of water		
bodies.		

	The company states (dWRMP, Table 7, p39) that most of its customers are likely to accept a lower level of service and support			
	bringing in temporary			
	there is a long period of			
	dry weather. The			
	company commits to			
	revising its drought			
	triggers and reviewing			
	how this will affect its			
	levels of service, but the			
	EA lacks confidence that			
	the company can deliver			
	the assumed demand			
December detter C.	savings.			
individual componen	Accelerate universal smart r ts of the metering strategy	netering, explain the assumption	on of zero benefit and clarify	
R6.1: Acceleration	The company proposes	Smart metering is key	The company should:	We submitted a bid to
of smart metering.	a rollout of universal	enabler in delivering other		the Defra accelerated
	smart metering by	demand management	• take account of the	spend process in order to
	2035, which may be	options and these are	recent correspondence	accelerate our household
	accelerated to 2033	crucial in avoiding deficits	from Minister Pow (15th	metering programme. We
	depending on the	and managing the risk of	March 2023) and	were successful in this bid
	outcome of the Defra	causing deterioration in the	accelerate its rollout of	and we detail in the
	accelerate spend	status of water bodies.	universal smart metering	revised draft WRMP how
	initiative.		or provide detailed	we plan to accelerate a
		Slower delivery of demand	justification and	proportion of our
	Smart metering is key	management measures	compelling evidence of	metering programme.
	enabler in delivering	means more risk of the	why it cannot be	However, we are behind

		completed by 2020	in our ourrent AND7
other demand management options and these are crucial in avoiding deficits and preventing the risk of	company increasing abstraction at groundwater sources to meet demand and this risks causing unacceptable impacts to	 completed by 2030 set out how it will deliver universal smart metering by 2030 for example, deliver smart 	in our current AMP7 metering delivery programme due to the impact of Covid and therefore we need to
preventing the risk of deterioration. It is therefore unclear why the company has decided to delay delivery of universal smart metering to 2035 rather than 2030.Appendix K sets out Smart Network Scenario which assess the benefit of the company implementing smart metering by 2030, 2035 or not at all. The costs and benefits from these scenarios are not clearly set out in the main plan and it is difficult to understand how the company has reached it decision on the timing o smart meter rollout.In comparison to other WRE companies. the	unacceptable impacts to the environment and/or that it is unable to meet demand and support growth.	 example, deliver smart metering to customers without a meter first, then move onto switching customers from ordinary to smart clearly set out, in the main plan, the costs and benefits of accelerating smart metering and how it has reached its decision on the timing of smart meter rollout explore working with WRE companies to develop economy of scale and experience submit challenging performance commitments as part of the price review process. 	therefore we need to ensure we catch up this programme before we can accelerate our universal metering programme. We outline our proposal for this in the revised draft WRMP. As part of our plan we assessed delivering universal metering by 2030. Our work with our supply chain and through engagement with companies such as Anglian Water and Thames Water that have undertaken ambitious metering delivery campaigns in AMP7 have highlighted that delivery of our entire universal metering campaign in 5 years is high risk. It should also be noted that we already have 74%
company has the slowes	t		metering penetration in the area and whilst we
Tonout of universal			

metering. Anglian Water		are targeting 100%
commits to full smart		penetration, this number
metering by 2030 and		is unlikely due to issues
Essex and Suffolk Water		such as shared services,
has proposed		complex apartment
accelerating full smart		blocks etc. Delivery of
metering by 2030 in its		100% would provide a
Suffolk resource zones.		benefit of circa 1.4 MI/d.
The company has not		Delivery in 5 years
explored working with		instead of 10 years would
WRE companies to		therefore provide an
develop economy of		additional 0.7 MI/d
scale and experience.		benefit in AMP8 and we
		believe this small benefit
		is outweighed by the high
		risk of delivery and higher
		costs. Our demand
		management proposals
		mitigate all of the
		planned growth in AMP8
		and the gap created by
		the licence cap would not
		be notably impacted by
		0.7 MI/d.
		In the revised draft
		WRMP we detail our
		prioritisation for rollout
		in section 11.2. This is
		linked to our PCD
		performance
		commitment in the price
		review.

R6.2: Smart metering delivers zero benefit.	The company assumes that smart metering (in isolation of other related actions) delivers	The company may be underestimating the benefits of smart metering and its approach is	 The company should: re-consider or change its the assumption that 	We have taken this feedback on board and reassessed the benefits delivered by metering.
	zero benefit in terms of customer water savings. This assumption does not appear to be correct based on evidence of smart meter trials and delivery elsewhere in the WRE region and country. There is no data, evidence, or explanation to support and justify this assumption.	inconsistent with other water companies. Smart metering is not adequately considered in the company's options appraisal and best value planning.	 smart metering delivers zero benefit provide justification why smart metering delivers zero benefit. The justification should include the data and evidence used to support the approach taken take smart metering options fully through its options appraisal and best value 	We have engaged with Anglian Water and particularly Thames Water who have extensive and detailed information on the benefits recognised. As a result, we have updated our assumptions and included a 13% benefit per household where a meter is newly fitted. Section 11.2 of the revised draft plan details
The company's smart metering assumption also means there is a lack of clarity around how future smart metering forms part of the preferred best value plan.	 work with other water companies to reassess the benefits of smart metering, for example Anglian Water, who are realising the direct benefits of smart metering 	options reviewed and how we derived our preferred plan.		
R6.3: Planned	The company does not	The lack of information	The company should clearly	We have updated section
metering.	future metering	customers and	and data tables, detailed and	WRMP to include this
	programme.	stakeholders cannot be	substantial evidence about its	detail.
		confident that these	metering programme for:	We are proposing a
	The main plan and	options are feasible or will		universal metering

	 Appendix M lack detail and clarity on the programme for: optant metering change of occupier metering selective metering compulsory metering and metering street- by-street with comparative billing 	deliver the assumed benefits. If savings from demand management measures are less than forecast, the company is very likely to have a supply- demand deficit. This risks the company increasing abstraction at groundwater sources to meet demand and this could cause unacceptable environmental impacts and/or that it is unable to meet demand and support growth.	 optant metering change of occupier metering selective metering compulsory and metering street-by- street with comparative billing The metering programme should be specific to the company and include clear timescales. 	programme, delivered by the end of AMP9. As part of this we assume the current rate of optants which will be delivered at a higher cost than the universal metering programme as this work does not benefit from the economies of scale or geographical planning.
Recommendation 7: 0 non-household suppl	Clarify the ambition to redu ies that are not sustainable	ce non-household demand and	justify the provision of new	
R7.1: Inconsistent	The ambition to reduce	The discrepancy between	The company should:	We have assessed several
ambition to reduce	non-household demand	the plan and the data tables		scenarios for the
non-household.	is inconsistent between	is confusing, potentially	 clarify if it plans to 	reduction in NHH
	the company's draft	misleading and reduces	reduce non-household	consumption relating to
	plan and data tables.	stakeholder and customer	consumption by	the 9% Environment Act
		confidence in the plan.	2037/38 and	target for 2038. Our
	The company states in		demonstrate how this	forecasted NHH
	its plan that it will	As per government	contributes to the	consumption increases by
	reduce non-household	expectations, all companies	water demand target	54% in 2038 from the
	consumption by 9%.	should assist non-household		19/20 baseline level, and
	However, in its data	users to sustainably reduce		as a result we are unable
	tables the company	their water use.		to identify a viable
	forecast a substantial			pathway to reduce NHH

(5.5%) increase in non-	Reducing non-household		consumption by 9% from
household consumption	demand is an important		this position by 2038 –
by 2037/38 from	part in reducing overall		this would mean we have
2019/20 levels	water demand and		a NHH demand of 20 6
	thereby beloing to		MI/d compared to the
The company states in	maintain customor		forecasted 25 15 MI/d As
its plan it will reduce	supplies and protect the		such we have explored
	supplies and protect the		such, we have explored
non-nousenoid	environment.		delivering the equivelent
consumption by 9%			delivering the equivalent
and a saving of 4ivii/d			of 9% of that 19/20
could be achieved			position (i.e. 2 Mi/d) or
through fitting			delivering 9% reduction
Enhanced Meter			in the forecasted 2038
Technology to all			position (i.e. 3.16 MI/d).
existing non-			We have chosen to adopt
household customers.			the latter scenario and
Although the ambition			describe this in detail in
is welcomed, the plan			section 11.4 of the
lacks specific detail			revised draft WRMP.
and evidence on the		rectify the	We have revised and
planned delivery of		discrepancies	aligned the plan and
measures. It is		between the plan	tables which will be
particularly important		narrative and data	submitted alongside the
the company set out		tables	revised draft WRMP.
how it will reduce			
demand in the		• provide specific plans, in	In section 11.4 of the
biotechnology, service		collaboration with	revised draft WRMP we
and technology		retailers, to reduce non-	outline our plans for
sectors as these are		household consumption.	fitting enhanced meter
the main drivers of		This should include	technology across our
increasing on-		detailed and substantial	non-household
household demand.		evidence about its	population, as well as our
		approach to fitting	plan to undertake non-
		Enhanced Meter	

			•	Technology, reducing leakage and water audits for business, including the timescales. set out how it specifically plans to engage with and reduce demand in the bio- technology, service and technology sectors.	household water audits, continuous flow monitoring and leakage support. Through the development of the revised draft WRMP we have engaged with planners and various developers to better understand future plans and needs and to influence build plans and designs. We are working closely with Defra, DHLUC and the EA to ensure the non-household growth ambition for Cambridge can be delivered sustainability, including retrofitting and offsetting through collaboration and third party and Government funding and delivery.
R7.2: Provision of	Neighbouring water	Continuing to supply all	The	e company should:	,
new non-household	companies in WRE who	new non-household		-	The nature of NHH
water demands.	face similar water	growth does not reflect the		 justify why it is 	development in our area
	resource challenges	risks and issues the		appropriate to supply	is such that it is difficult
	propose either a	company faces and is		new non-household	to differentiate between
	moratorium on new	inconsistent with the		demand, (where the	the domestic use and
	non-household demand	approach taken by		water is used for non-	other use. We review

(where the water is	neighbouring water	domestic purposes)	NHH connection requests
used for non-domestic	companies in WRE.	with water that is not	on an individual basis so
purposes) or take		sustainable.	that we can identify and
evidence led risk- based	Using unsustainable sources		significant proposed non
decisions whether to	of supply to provide for all		domestic use and discuss
grant or deny any new	new non-household demand		this. We have assessed a
non-household	puts the environment and		a scenario of no
requests.	security of supply at risk.		additional NHH use from
			2024; however the
Despite the risks and			marginal savings in
issues set out in			addition to our water
Recommendation 1 the			efficiency measures for
company continues its			NHH would not bridge
plans to provide water			the gap required for
for all new non-			IROPI in 2030-32. In
household demands.			addition, through our
The EA has concerns			ongoing collaboration
that the company may			with Defra, DHLUC,
supply non-household			Greater Cambridge
demand with			Shared Planning and the
unsustainable sources			EA, we are clear on the
of supply, exacerbating			Government ambitions
its own deficits and			for the region as outlined
risking causing			in the announcement by
deterioration in the			Michael Gove and the
status of water bodies.			Prime Minister on 23 rd
			July 2023 (see <u>link</u>), and
The company has not			therefore do not believe
justified why it plans to			that planning for no
supply new non-			additional non-household
household demand,			growth is a position that
(where the water is			will be acceptable to all
used for non-domestic			parties.

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			1	1
	purposes) with water			
	that is not sustainable.			
R7.3: Non- household demand forecast.	It is unclear whether the company consulted or engaged with retailers of water to non-household customers in developing future non-household demand forecast. This is a regulatory expectation as set out in guidance.	The lack of engagement with retailers specifically when developing the non- household demand forecast reduces confidence in the company's non-household forecasts.	The company should consult and engage with retailers of water to non-household customers to improve its non- household demand forecasts.	Through the development of our non- household forecasts, we have worked with Artesia and retailers to assess this. In addition, we have undertaken extensive engagement with Greater Cambridge Shared Planning to understand clearly the future plans, the proposed sectors and scale of the development to ensure that our plans are as accurate as possible. We have shared our non-household forecasts with Greater Cambridge Shared Planning who support our forecasts as being aligned to their proposals for both development and employment. These have been updated accordingly for the revised draft WRMP.

	Annondia C2 interstifier	The component we see by	The equation (all sould south)	
K7.4: NO dry year	Appendix C2 identifies	The company may be	The company should apply an	we have included
allowance made for	that agriculture (and	underestimating now a dry	allowance for a dry year to	additional narrative on
non-nousehold	otner weatner	year impacts on non-	non-nousenoid demand or	this in the revised draft
demand.	dependent industries)	nousehold demand.	provide justification why this is	WRMP. Our approach to
	make up 18% of the		not appropriate with specific	this is aligned to that
	proportion of	The lack of appropriate data,	reference to agriculture (and	used by other water
	properties in the	evidence, and explanation,	other weather dependant	companies through our
	industry group.	in support of the company's	industries). The justification	engagement with liaison
	However, the company	approach, reduces	should include the data and	with Artesia. In addition,
	does not apply an	confidence in the plan.	evidence used to support the	our demand forecasts are
	allowance for a dry year		approach taken.	built up using historic
	to non-household			data to understand
	demand and assumes			potential fluctuations in
	that dry year conditions			non-household demand
	do not significantly			and we are confident this
	affect commercial water			is captured accordingly.
	use. There is no data,			
	evidence, or			
	explanation to support			
	and justify this			
	approach.			
Recommendation	8: Provide confidence th	e plan will achieve assume	d proposed demand	
reductions and the	actions needed to keep	demand savings on track.		
R8.1: Inconsistent	The ambition to reduce	The discrepancies between	The company should:	In the revised draft
ambition to reduce	leakage and PCC is	the plan and the data tables		WRMP, we include more
leakage and PCC.	inconsistent between	are confusing, potentially	 clarify its plans to 	detail on our leakage
	the company's draft	misleading and reduce	reduce leakage and	plans in section 11.1 and
	plan and data tables.	stakeholder and customer	PCC by 2050	our PCC plan in section
		confidence in the plan.	 rectify the 	11.3. We propose to
	In the plan, the		discrepancies	reduce leakage by 50% by
	company aims to		between the plan	2040 in recognition of the
	achieve a 50% reduction		narrative and data	water resource
	in leakage (from		tables.	challenges we are facing

	2017/18 levels) by				and customer feedback
	2050.				through our engagement
	However, in its data				work on the priority of
	tables the company				leakage. We are also
	forecast a reduction of				planning to achieve the
	63%.				Environment Act targets
					for PCC, including the
	In the plan, the				interim target in 2038.
	company aims to				which will see dry year
	achieve a PCC of 110				PCC of 110 l/h/d by 2050.
	l/h/d by 2050. However.				
	in its data tables the				We have updated the
	company forecast a PCC				data tables to ensure
	of 99 l/h/d.				these are correctly
					reflected and these will
					be submitted along with
					the revised draft WRMP.
R8.2: Delivery of	The company's planned	The EA do not have	Th	ne company should:	We have updated the
planned demand	demand reductions are	confidence that the			revised draft WRMP to
reductions.	welcomed, however,	company will deliver its	•	for each option identified	include detail on all of the
	given the risks of non-	proposed demand		in Appendix M provide	feasible demand
	delivery and reliance on	management options, due		detailed and substantial	management options. We
	demand management	to the absence of detailed		evidence about the	have also included more
	there is insufficient	delivery information and		delivery of the actions,	information regarding the
	detail and evidence on	based on past		this should be specific to	proposed delivery of
	the delivery of the exact	performance. This has the		the company. For	demand management
	measures planned.	potential to put public		example, this should be	actions in section 11.3 of
		water supply and the		similar to the detailed	the revised draft plan.
	There are general	environment at risk.		demand management	We have also included
	definitions proposed			water efficiency plan	more information on the
	demand management	It is important that the		provided in the	scenario testing we have
	options in Appendix M,	company meet customer		company's response to	undertaken on the
	however these are high	preference, in the plan it		2022 Annual Review	preferred plan in section

level and lack specific detail on delivery and timescales. Section 11 of the main plan sets out the preferred portfolio, but there is insufficient narrative to support the planned reductions. The WRMP24 baseline demand forecast assumes achievement of WRMP19 commitments. The EA has concerns that currently PCC is above forecast, and metering is holew forecast (based	states "customers have stated that they want us to do more to educate customers in their water usage and the ways to save water. As well, they want us to share more information to all of our customers of why this is so important; so to share more on our water stress status, the future challenges and the link between demand and the environment."	•	incorporate more detail into the main plan (Section 11), linking to Appendix M and better representing the delivery of the preferred portfolio demonstrate how it plans to meet customer preference as stated in its plan and use all available channels to target its customers, for example, innovative billing, mobile applications etc	11.7 of the revised draft WRMP. These scenarios relate to the Ofwat common reference scenarios, and one particular scenario identifies the impact, and necessary actions through adaptive planning, should our demand management only be 50% effective. We have also included uncertainty around delivery in our target headroom calculations for the revised draft plan, known as component D4.
on Annual Review 2022). The EA lacks confidence that assumed reductions will be delivered due to the company's past performance in delivering its WRMP19 demand reductions. The company has reported PCC (and distribution input) as above forecast in AMP7 and this may continue into AMP8.		•	provide assurance of option delivery and provide evidence where any risks exist. This should include that some of its baseline assumptions may not be fulfilled demonstrate that its targets are achievable, being planned for and that non-delivery does not present a risk to	

	The company state that "per capita consumption (PCC) reductions in AMP7 remain a challenge following the Covid 10		security of supply.	
	pandemic and that			
	whilst levels of			
	household usage are			
	reducing, we are not yet			
	seeing pre-Covid levels			
	despite extensive water			
	efficiency work above			
	programme "			
R8 3. Uncertainty	Despite the company	Target headroom is	The company should include	We have included
associated with	relying heavily on	under-estimated due to	an assessment for headroom	component D4 in our
demand	options to reduce	the exclusion of	component D4 (uncertainty	target headroom
management	demand it does not	uncertainty in delivery of	associated with demand-side	calculation for the revised
options.	include any uncertainty	demand-side options	options) in its plan. This should	draft plan and this is
	around delivery of its	(headroom component	include uncertainty in both its	represented in the
	demand management	D4). This means the	own demand-side options and	updated data tables that
	measures in its target	supply demand balance is	uncertainty associated with	will be submitted
	headroom assessment.	not appropriately	Government water efficiency	alongside the revised
		represented.	labelling of domestic goods.	draft WRMP.
R8.4: Baseline water	The company states	It is unclear how existing	The company should include	We have included
efficiency activity.	that its baseline	water efficiency activity is	detailed information about its	additional information
	demand forecast	demand forecast	officiency activities and how	outlining our baseline
	demand management		these are incorporated into	and how these are
	nolicies		the baseline demand forecast	incorporated into our
	poncies.		the baseline demand forecast.	nlanning in section
	However, the plan does			11.1.3.

	not clearly describe, in detail, the existing baseline water efficiency activity undertaken by both the company and by retailers operating in its area. There is limited information about how these activities are incorporated into the baseline demand forecast.			
Recommendation 9: I	Ensure there is clear monito	ring of the demand manageme	ent programme.	
R9.1: Monitoring the water efficiency programme.	Successful demand management is a key strategy to maintain the company's supply demand balance in the short term. However, there is insufficient information on how the company plans to monitor its demand management programme and if any key decision points are identified and alternative options proposed, should the delivery of the programme be slower than expected.	The lack of information on monitoring of the demand management programme reduces confidence in the reality of achieving the water efficiency programme forecasted savings. To meet government expectations and the dWRMP24 demand management ambition it is essential that the company continuously monitors and reacts to delivery progress.	 The company should provide a clear water efficiency monitoring programme throughout the planning period with particular focus on the first 10 years. This should include the specific actions the company will take to monitor its planned: leakage reduction PCC reduction non-household demand reduction metering rollout any other measures to reduce demand. The company should set out 	Our plan for monitoring and reporting our demand management activities have been updated in section 11.3 'Delivery of our demand management proposals', of our revised draft WMRP. The commentary includes details of an internal 'Demand management reporting process' as well as our approach to external reporting to the Environment Agency and Ofwat. This section also includes how we will

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Recommendation 10: making existing supp	: Complete a full review of s lies more resilient.	ource vulnerability and reliabil	the actions it plans to take if demand options fail to deliver, this should include identifying key decision points and alternative options. Ity; include investment in	address any delivery which is off track.
R10.1: Outage is not fully accounted for in the plan and risks security of supply	The company's outage allowance does not reflect operational experience. Although the EA acknowledges that outage fluctuates yearly, outage has consistently been reported as above forecast and this has been repeatedly raised as a concern via the Annual Review process. Recently, prolonged, and significant outage events have contributed to the company requesting local enforcement positions to avoid compromising its licence compliance. The EA is concerned that observed outage events are affecting the	The plan does not reflect the true risks to the environment and security of supply posed by outage. Outage events have contributed to the company requesting local enforcement positions which can put the environment at risk.	 The company should: complete a full review of source vulnerability and reliability and use the results to update the outage allowance where necessary ensure it includes investment to make existing supplies more resilient and work proactively with the EA, DWI and other regulators to highlight supply risks early so everything possible can be done to avoid over- abstraction. 	We review our source reliability and outputs annually and have an ongoing programme of maintenance and upgrades to ensure minimised any unplanned downtime. Maintenance does also require outages at sources, and the majority of unplanned outages reported have been as a result of water quality issues outside of our control, and we are committed to ensuring water quality remains compliant. Outturn outage will legitimately vary year from year, and from the outage allowance for WRMP and the unplanned outage

reliability of abstraction		performance
and this is affecting the		commitment. Our annual
company's ability to		unplanned outage
make full use of water		performance is within the
resources available to		expected allowances in
it.		the WRMP, and
		unplanned outage is
The EA is concerned		managed according to
that future unplanned		the supply needs for SDB
events such as outages		and compliance to avoid
or peaks in demand		over abstraction at
may result in the		individual locations
company increasing		
abstraction at the risk		Our outage allowance has
of the environment.		been calculated in
		accordance with the
		planning guidelines
		WRMP24 Supplementary
		Guidance 16032021. EA.
		and the recommended
		technical approach in
		UKWIR report Outage
		allowances for water
		resources planning
		(LIK)//IR 1995)
		(0.000,1000).
		As per guidance, the data
		used in our models to
		determine the allowance
		is based on recent,
		relevant, actual outage
		data collected, this was

		reviewed for events up to
		2021. Our outage figure
		is 5.7% through AMP8
		rising to 5.8% of
		distribution input in
		AMP9 and is reviewed
		and updated every 5
		years with new data.
		Due to the veletive
		Due to the relative
		number of sources versus
		distribution input
		contributing to supply in
		an integrated network it
		is not appropriate to
		compare our WRZ with
		other companies – for
		instance over 40% of our
		sources have an
		individual deployable
		output above the outage
		allowance. The
		allowance does not drive
		investment additional to
		that required for meeting
		licence caps to prevent
		deterioration and is
		appropriate to allow for
		planned outages to
		maintain assets – which
		would be minimised in a

		dry year scenario - and
		unplanned outages
		outside of our control,
		which could still apply in
		a dry year scenario. An
		underestimation of
		outage allowance, in
		particular relating to
		longer term unplanned
		issues, would increase
		risks to the security of
		supply. In the longer
		term, changes to supplies
		as options are
		implemented will change
		the outage risk profile,
		and this will be reviewed
		in subsequent WRMPS, in
		the meantime it is
		appropriate to maintain
		<6% outage allowance,
		where it is not driving
		additional supply
		investment.
		Outturn outage will
		legitimately vary year
		from year, and from the
		outage allowance for
		WRMP and the

Image: Section of the section of th
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outturn outage figures are derived from the same database of events, however the methodology of event types included and the
are derived from the same database of events, however the methodology of event types included and the
same database of events, however the methodology of event types included and the
however the methodology of event types included and the
methodology of event types included and the
types included and the
approach to longer term
outage adjustments is
different, so they will not
match. For example,
water quality events are
excluded from the Ofwat
performance
commitment, but not the
WRMP allowance.
heen relatively consistent
following reviews of data
since WRMP14 reflecting
that the types of events
experienced and the
are appropriate for our
WR7 We do not conside
that there are options

				available to reduce outage due to the proportion of induvial sources that have outputs above the allowance and the risks that a lower figure would introduce into our WRZ system.
Recommendation 11:	Revise the strategic environmenta	al assessment (SEA)	T	
R11.1: Programme	The Environmental Report	This issue presents a	The company must	In the revised draft
appraisal	does not consider	significant	demonstrate that all	WRMP, sections 11.7 and
	alternative plans such the	compliance risk. The	plan-based	11.8 detail the work we
	least cost programme and	overall effectiveness	alternatives have	have done to test our
	a best environment and	without an	which includes a	plan against various
	Section 6.4 of the	assessment of nlan	least cost and a best	potential scenarios,
	Environmental Report	alternatives and a	environment and	aligned to Ofwat's
	states "Cambridge Water	clear understanding	society programme	common reference
	tested the draft preferred	of why the preferred	and as a minimum.	scenarios, the impacts
	plan under a range of	plan has been	The company should	these would have on the
	different planning	chosen in light of	provide more	plan and the adaptive
	scenariosUnder all	alternatives. Without	detailed explanation	pathways we would need
	scenarios, there is no	the assessment of all	for not selecting	to take if these came to
	change to the preferred	plan alternatives, the	reasonable plan	pass. In addition, section
	plan as it selects all	SEA does not comply	alternatives.	118 addresses adaptive
	feasible options required	with the SEA		planning that looks at
	to meet the deficit. As a	Regulations. There is		elements such as
	result, there is no available	potential for legal		environmental
	alternative or adaptive	challenge if all		destination.
	plan as part of the WRMP	alternative options		
	and as such, no further	nave not been		
	assessment is required."	assessed or the		

	The justification for not selecting reasonable plan alternatives is weak.	plan/SEA cannot fully justify why the preferred option has been chosen and whether the same outcomes could have been achieved with less harmful alternatives.		
R11.2: In combination effect	 Although briefly described in section 6.5 of the Environmental Report, the company has not clearly identified in combination effects or set out exactly how these will be addressed. 	 Without clarity on the presence of in- combination effects the EA cannot be sure all significant effects have been correctly identified. 	 The company should add further detail and clarity to section 6.5 and Table 6.5 to ensure that in- combination effects have beenclearly identified and set out exactly how these will be addressed. 	In combination effects will be addressed in the revised document as appropriate. as per the in-combination methodology set out in Section 2.5
R11.3: Monitoring plan	 The company has set out a list of provisional and indicative monitoring proposals in section 7.4 of the Environment Report. However, there isn't a clear commitment to how monitoring will be delivered, implemented and actioned. A final monitoring framework has not yet been prepared, the company states that it will 	 Without clear monitoring commitments there is the potential for implementation of the WRMP to result in unforeseen significant effects that could persist without appropriate intervention. 	 The company should: clearly set out a commitment to how monitoring will be delivered, implemented and actioned prepare a final monitoring framework and include it within the Post Adoption Statement. 	The SEA is undertaken at the strategic, plan-level, rather than project level where the requirements for monitoring programmes would be better understood. Project level monitoring would be undertaken.

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	be included within the					
	Post Adoption Stateme	ent.				
R11.4: Cross boundary effects	 Section 4.2.2 of the Environment Report second the use of the geographical extent of operational area cover by the WRMP and a 10 study area from each option has been used. However, the report d not discuss, for examp effects that may occur outside of the Cambrid Water supply area into another adjacent geographical water sup area. 	ets the ed km bes le, jge	 Without identifying cross boundary effects the EA cannot be certain a significant effects have been correctly identified. 	g All Y	 The company should set out how cross boundary effects have been considered within Section 4.2.2 and ensure this follows through to the methodology and assessment sections to provide certainty that all significant effects have been captured. 	Assessments are at strategic, plan-level, rather than project level suitable for comparison of the options and identification of impact. The SEA methodology was undertaken in accordance with the methodology developed at the Scoping Stage which included the statutory consultation process. Cross boundary LSE effects have been assessed.
Recommendation 12	Ensure the plan is legally c	omplia	nt by adhering to the W	RMP	Directions.	
R12.1: Direction 3(d) parts (i), (ii), (iii), (iv), (v).	The company has presented some information on its carbon emissions in the plan and data tables. However, the company has not: • completed an assessment of	The c comp 3(d), (v). Regul stake assur- implic dema	ompany is not liant with Direction parts (i), (ii), (iii), (iv), ators and holders do not have ance that the carbon cations of the nd options have	•	complete an assessment of greenhouse gas emissions for its demand management options explain how its greenhouse gas emissions will contribute	We have included the required information in a new section, section 11.12, of the revised draft WRMP. This outlines the impact of our preferred plan on greenhouse gas emissions and also our overall company plan for net zero.
	greenhouse	been	fully considered, or			

 gas emissions for its demand management options explained how its greenhouse gas emissions will contribute individually and collectively to its greenhouse gas emissions overall set out any steps it intends to take to reduce greenhouse gas emissions described how these steps will support the delivery of any net zero greenhouse gas emissions commitments described how these steps will support delivery of the UK government's net 	that any company level or National net zero commitment will be delivered on time.	 collectively to its greenhouse gas emissions overall set out any steps it intends to take to reduce greenhouse gas emissions describe how these steps will support the delivery of any net zero greenhouse gas emissions commitments describe how these steps will support delivery of the UK government's net zero greenhouse gas emissions targets and commitments. 	
support delivery of the UK government's net zero greenhouse gas emissions targets and			

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	commitments.			
R12.2: Direction 3(g) (iii) and 3(h) (iii).	The company does not comply with part (iii), specifically (bb) of Direction 3(g) and 3(h). The company refers to change of occupier metering in its plan. However, this is inconsistent with the data tables where there is a value of zero across the planning period for final plan metering change of occupancy (table 2c row 34.4). As a result, the company does not comply with part (bb).	The company is not compliant with Direction 3(g) (iii) and 3(h) (iii). The discrepancy between the plan and the data tables is confusing, potentially misleading and reduces stakeholder and customer confidence in the plan.	 The company must: resolve the discrepancy between the plan and the data tables set out values for change of occupancy metering across the planning period. 	We are not implementing a change of occupancy meter policy. Our metering strategy will focus on achieving universal metering through the metering of the remaining c30,000 unmeasured Households with a view to reach as close as effective 100%- meter penetration by 2035. All new builds will continue to be metered in line with current policies. We have updated the data tables to reflect this and these will be submitted alongside the revised draft WRMP.
Area of issue	Issue and evidence	Implications	Information or changes required	Cambridge Water Response
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Improvement 1: Exp				
I1.1: No consideration of carbon offsetting, mitigation or innovative carbon options.	Linked to recommendation 11. The company state it aims to achieve net zero carbon by 2030, however it has not considered mitigation opportunities for reducing carbon emissions, or carbon off- setting to for mitigate residual emissions. The company does not consider options to reduce carbon that embrace innovative designs and opportunities to generate or be powered by renewable energy or sequester carbon (or both).	The absence of carbon mitigation, offsetting and/or innovative carbon options does not comply with the WRPG and reduces customer and regulators confidence in the quality of the options selection and decision making.	The company should set out how it plans to offset and mitigate carbon emissions from its proposed options. The company should consider innovative approaches and opportunities to reduce or mitigate carbon emissions in its options appraisal.	We have included our plan for achieving net zero as a company in section 11.11.1 in the revised draft WRMP. Our supply side options are assessed for carbon cost and this metric is taken into account in our best value analysis.
I1.2: No consideration of uncertainty in carbon assessments.	The company does not consider uncertainty within its carbon assessment, and this has the potential to affect plan outcomes.	The absence of uncertainty within the company's carbon assessment does not comply with the WRPG and reduces customer and regulators confidence in the quality of the company's options selection and decision making. calculation of carbon emissions, any	The company should include an assessment of uncertainty in the assessment of carbon emissions.	We have produced a supporting note on carbon to support the answers to queries under improvement action 2. This has been submitted alongside the SoR. This is Appendix S, and section 5 – Limitations and next

		uncertainty in the data should be considered.		steps – outlines the uncertainties.
Improvement 2: Cle	arly set out all existing bulk tran	sfers.	1	
I2.1: Insufficient information on bulk transfers.	The company has referred to several routine bulk transfers and includes values in its data tables. However, there is insufficient information, in the plan, on the details of each transfer and the agreements it has with other water companies to secure these measures. The company has not included information about its supply to a commercial customer outside of the supply area, which is used seasonally.	Providing more detail in the plan will ensure clarity for each agreement, reassurance that transfers are reliable during a dry year and allow customers and stakeholders to clearly identify each bulk transfer agreement.	 The company should provide the following information on its bulk transfers: the name of the donor/receiving company the volume for each agreement the agreed limits between supplier and recipient companies and ensure consistent reporting in the relevant plans. This should be described for both normal operation and the chosen design event variations related to contractual or other arrangements such as decreases in transfers due to drought, responding to operational incidents or pain- share agreements information about its 	We have added a table into section 6.7.2 with these insignificant volumes. Bulk supplies provided to NAVs are not included in the table, these are demand driven and sized accordingly. It is not appropriate to include any individual commercial supply in our WRMP.

			supply to a commercial customer.	
Improvement 4: Imp				
I4.1: Approach to assessing and presenting climate change impacts.	Section 6.6.1 of the main plans state that the climate change methodology is based on a Tier 2 approach, with some elements of Tier 3. However, the Tier used for the climate change assessment is not justified with sufficient detail and it difficult to assess if the company applied the approach for the relevant Tier of analysis. Four future scenarios were used, but there is insufficient information to identify which were chosen and insufficient justification for the choice made. Appendix D, Table 2.2 indicates the level of warming of each scenario in degrees. However, it is unclear which model these levels of warming originate from, which ensembles of	Without the sufficient level of detail, the EA cannot be certain if the approach to assessing and presenting climate change impacts is appropriate. The impacts of climate change on the availability of supplies may be higher, or lower, than presented in the plan.	 The company should: explain and justify with enough detail which Tier of analysis it has used in its assessment and which products were selected clarify which model the levels of warming originate from, which ensembles of the models were used, and which year they represent clarify if UKCP18 or UKCP09 data were used. For water resources zones with high vulnerability, the EA guidance indicates the analysis should consider Global or Regional UKCP18 projections, and scenarios that explore the wider range of uncertainty based on evidence from other climate 	We have amended section 6.6 in the main plan to provide more information on these areas. UKCO18 data was used for our plan.

	the models were used, and which year they represent.		models (for example, UKCP18 probabilistic projections).	
I4.2: Vulnerability Assessment and analysis of UKCP18.	 the models were used, and which year they represent. It is unclear if UKCP18 or UKCP09 data were used. The company has not: undertaken a Baseline Vulnerability Assessment (BVA) or referenced a BVA from WRMP19 made comparison between UKCP09 and UKCP18 	Without the sufficient level of detail, the EA cannot be certain if the approach to assessing and presenting climate change impacts is appropriate. The impacts of climate change on the availability of supplies may be higher, or lower, than presented in the plan.	 models (for example, UKCP18 probabilistic projections). The company should: reference its BVA from WRMP19 where relevant or explain how its vulnerability assessment is an appropriate alternative make comparison between UKCP09 	We have amended section 6.6 in the main plan to include additional relevant details and a comparison of UKCP09 and UKCP18. We have aligned our
	 contextualized the UKCP18 products provided, namely relevant weather variables (for example, precipitation and temperature) for future time slices and baseline period for all scenarios for the Probabilistic, Regional and Global Projections screened UKCP18 products with datasets used for WRMP19 to identify datasets to 		 and UKCP18 provide contextualization of the UKCP18 products screen UKCP18 products with datasets used for WRMP19 to identify datasets to enhance analysis. 	approach with that taken for WRE by utilising new stochastic weather datasets produced or regional companies to use, and applied a detailed water level change impact resulting from selected UKCP18 climate scenarios. We have expanded on this in the revised draft WRMP.

	onhanco analysis			
	ermance analysis.			
Improvement 5: Clai				
I5.1: Best Value metric weighting.	It is unclear how the Best Value metrics are weighted against other metrics within the Multi Criteria Decision Analysis (MCDA) tool used. Currently the Natural Capital Assessment (NCA) results show costs to the environment, and it is unclear how these results affected the decision-making process.	Without the sufficient level of detail, the EA cannot be certain of the weighting that the NCA results have on the decision- making process.	 The company should clarify: how the Best Value metrics are weighted against other metrics within the MCDA tool used how the identified costs to the environment and weighting of the NCA results have impacted the decision-making process. 	We have included more information on the weighting of the metrics in our revised draft WRMP. This is contained in section 9.3. This highlights how the weighting was determined for each of the components within our best value optimisation. Each of these weightings then leads to a score. ValueStream then looks to deliver a plan that provides the best value i.e. the highest score of all of the metrics combined
I5.2: Managing uncertainty.	The company did not undertake a sensitivity analysis or consider how to manage uncertainty in its assessment.	As the valuation and assessment of environmental and social impacts is frequently uncertain, the company should consider how to manage this uncertainty in its assessment	The company should consider how to manage uncertainty in its assessment and undertake a sensitivity analysis.	We have included more detail on the scenario testing, in line with Ofwat's common reference scenarios, that we have undertaken. This is outlined in section 11.7

				of the revised draft WRMP.
I5.3: Intermediate and quantitative steps taken in the assessment.	There is insufficient detail on the intermediate, quantitative steps taken in the assessment, making it difficult to observe if minimum practice was applied. It is unclear whether a screening process was used to decide which ecosystem services would be assessed for each option, or if no impact was expected from the options. In addition, minimum practice was not conducted for Water Purification, as a quantitative assessment was not undertaken.	The lack of presentation of the intermediate steps makes it difficult to determine if the methodology stated in the report was followed. Without the sufficient level of detail, the EA cannot be certain if minimum/best practice was followed.	 The company should: provide detail of the intermediate steps of quantification, such as tCO2e sequestered for each habitat type in each option clarify whether a screening process was used to decide which ecosystem services would be assessed for each option complete a quantitative assessment for Water Purification and include the results in the NCA 	The approach to developing the best value metrics and how they are calculated for each option were consulted upon through Water Resources West as the ValueStream tool was scoped, developed and refined. Water Purification is not included as options are focused on water resources and the common view across Water Resources West is that water purification is not a relevant element to the supply side options developed.
Improvement 6: Imp	prove the information provided i	in both the household and no	n-household demand forecast	
technical appendice	Ş.			
16.1: Suggested	Appendices C1 and C2	It is currently unclear	The company should provide	We have included an
improvements to	(demand forecasting)	whether the company has	information in the plan about	additional section in the
the demand	contain a number of	acted on any of the	how it is taking on board the	revised draft WRMP,
forecast technical	improvements suggested to	suggested improvements	six suggested improvements	section 5.13, which is
appendices.	the company by Artesia. In	to demand forecasting or	listed here (and in Appendix	entitled "Ongoing
	summary these are:	whether it intends to act	C1 and C2). This should	demand forecast work"
		on them in the future and	include whether the company	and addresses each of

consider a micro-	if so, when.	agrees with the suggested	these recommendations
component study to		improvements, if it has	and our approach.
improve on the		already addressed them, and	
current approach		if not, when it plans to	
which is based on		address them.	
ageing national			
datasets. This should			
include more micro-			
component data for			
new build properties			
 consider the 			
company's resilience			
to prolonged			
duration hot, dry			
events such as			
summer 2018. This			
should include the			
Artesia (2020)			
project which			
assessed the			
magnitude of peak			
demand over			
different durations			
for water companies			
 update the non- 			
household demand			
forecasts prior to			
final plan submission			
 work with MOSL and 			
retailers to improve			
the quality of non-			
household forecasts			
 improve 			

	understanding of which Standard Industrial Classification category its non- household customers are allocated to adopt a more continuous approach to non- household demand forecasting rather than revisiting this only once in every five-year planning cycle.			
Improvement 7: Rev	iew resilience of its plan in the c	context of the 2018 and 2022 of	drought.	
17.1: Set out any lessons identified and actions in response to the drought of 2022.	The drought of 2022 challenged the company and was one of the most significant droughts of recent times. The drought saw very high demands and highlighted some areas where resilience needs to be improved. The company should learn from any issues it experienced, such as: • outage	The effectiveness of the plan may be reduced if the company fails to identify risks from conditions which challenge systems or impact the supply demand balance. The company may miss an opportunity to improve the plan if it does not include any new activities undertaken, options considered, or any	 The company should: include an appendix to consider its experiences from 2022 and refer to the updated water resources planning guideline for a list of topics to consider set out any lessons identified and actions in response to these. This should include changes made to the plan as a result and plans to 	We have produced an additional appendix that details our review of the 2022 drought and our lessons learned. This will be submitted alongside our revised draft WRMP.

events caused by high temperatures	measures not currently included in the dWRMP24 modelling and drought plan.	undertake further work.	
 high customer demand, at peak times the company reported an increase of 37% in its distribution input 			
 and the resultant impacts on licence compliance, caused by the above. 			