Strategic Solution Interim Update Submission Summary

27 September 2021





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1 Key Messages

Our Water Resources Management Plan 2019 (WRMP19) identified significant requirements for large new water resources in West Hampshire. These needs were confirmed in our Price Review 19 (PR19) business plan, and it is in our customers' interests that these needs are addressed as quickly as possible. Our ambition is to create an intelligent network which delivers greater environmental benefits and a resilient water future for the South East. We are considering a number of potential Options for delivering such water resources, including desalination, water recycling and an enhanced solution for the use of the proposed Havant Thicket Reservoir (HTR). The Options under consideration are being progressed through the RAPID Strategic Resource Option (SRO) process.

Water is hugely valuable for the environment, health and wellbeing and leisure activities, and is crucial for agriculture, business uses and all other economic uses. We fully support the measures already in place to protect chalk streams, particularly the iconic chalk streams of the Rivers Test and Itchen. In accordance with the Section 20 (s20) agreement we have with the Environment Agency (EA), we are using, and will continue to use, All Best Endeavours (ABE) obligations to deliver an appropriate long-term solution by the agreed date. This will contribute to achieving a permanent reduction in the abstractions from these rivers, whilst still delivering on our water supply obligations.

Our current Water Resources Management Plan (WRMP) is designed to deliver resilience against a 1-in-200-year drought event. The National Framework for Water Resources, published in March 2020, indicates a move for the whole sector to plan for resilience in a 1-in-500-year event, and for WRMPs to align with the optimal solutions chosen by regional plans. We are supportive of these changes and are seeking to develop flexible solutions that not only take account of higher resilience requirements for the future but can also adapt to emerging requirements and future challenges. We have developed three Strategic Objectives, which have been used as part of the Options Appraisal Process (OAP) to identify our Emerging Preferred Option (EPO).

At Gate 1 we presented a range of Options including desalination, water recycling and enhanced uses of the HTR proposed by Portsmouth Water (PW). Since Gate 1, we have developed a robust, evidence-driven OAP, in order to identify the best value Option for our customers, stakeholders and the environment, taking into account the Strategic Objectives for the solution, including flexibility and adaptability.

RAPID, the EA and SW are committed to selecting the best long term adaptable strategy for our customers and the environment. To achieve this, it is proposed that the best approach is to reschedule the date of Gate 2 to 6 December 2021, to be preceded by an Interim Update (IU) on 27 September 2021. This is to allow time for a more thorough examination of which of the remaining Option(s) can best meet the demands presented by increasing future needs, and including the needs of PW's customers, as well as our own.

The purpose of this Interim Update is to provide evidence of our technical development, Options Appraisal work and stakeholder engagement on all the Options.

In this Interim Update we report the outcome of our Options Appraisal Process (OAP) to date, concluding that:

- The Options that enhance the daily volume of water that can be extracted from the HTR are the highest ranking
- Water recycling Options that deliver the raw water to a new environmental buffer at one of our treatment works on the River Itchen are middle ranking



- The desalination Options are the lowest ranking in our assessment, and the site at Fawley presents difficulties such that we consider these Options are not likely to be consentable at this location at this time
- SW has come to the view that it is appropriate to no longer progress with any further work on the desalination Options as there is now clear evidence to show that these are the least preferable Options at this location and time
- Therefore, no further work is to be carried out on the Desalination Options at Fawley

To allow time for the further work to be undertaken we have requested of RAPID, and are anticipating reaching agreement, that the arrangements for Gate 2 are modified as follows:

- a) Gate 2 is rescheduled to 6 December 2021.
- b) RAPID will agree to expedited determination timescales in respect of the rescheduled Gate 2, to enable SW to get on at pace with progressing the Selected Option towards Gate 3. We suggest 21 January 2022 for a Draft Determination. This is on the basis that we commit to share the evidence we are developing for Gate 2 with the relevant regulators in good time before the gate and that their advice is incorporated.

At Gate 2 the highest-ranking Option or Options will be confirmed by SW as our Selected Option, and if appropriate a further Option will be confirmed as a 'Back-Up Option', to be taken forward to Gate 3 in the manner described in our submission. SW will detail how our Selected Option is planned to evolve to meet the challenge of a 1-in-500-year water resource planning world by submission at Gate 2 of a Selected Option Evolution Plan and a similar approach will be taken with any Back-Up Option selected.

We will continue to develop the remaining Options to Gate 2, and in this Interim Update we show the activities that we plan to carry out to test out the Options for adaptability for future needs, including, for example, taking into account a 1-in-500-year drought.

The decision, that we will confirm at Gate 2, is strategically important for us, PW, our regulators and stakeholders. We need to confirm a Selected Option at Gate 2 that can best deliver an appropriate long-term solution by the agreed date. We also want it to take into account the needs described above, to the extent it is possible to do so.

We will also identify a Back-Up Option that can be activated quickly in the event that the Selected Option became undeliverable. We will also detail how we plan to evolve our Selected Option to meet the challenge of increasing future needs.

In Appendix 1 - Submission Navigation and Glossary, we provide a guide to the structure of the Interim Update and the full Glossary of acronyms and terminology used throughout the update.

2 Introduction

We have entered into an agreement with the EA under s20 of the Water Resources Act 1991 under which we are obliged to use ABE to implement the Preferred Strategy published in WRMP19. The Preferred Strategy included a 75 Ml/d desalination plant at Fawley, and this is referred to as the "Base Case" for the purposes of this Interim Update.

In addition, Ofwat requested in the PR19 Final Determinations that we consider a number of alternative solutions to the Base Case. The alternative solutions act as 'back-up' Options in case the Base Case cannot be implemented. The consideration of alternatives is also required to support important assessments for regulatory requirements and consenting, such as Strategic Environmental Assessment (SEA), Habitats



Regulation Assessments (HRA), Water Framework Directive Assessment (WFDA) and Environmental Impact Assessment (EIA).

It is important that the OAP is robust, as it will underpin the 'need' case for the Selected Option and must meet the requirements for the consideration of alternatives in the context of future planning applications. The OAP will be tested, not just at Gate 2, but in future regulatory and planning consent processes.

We have therefore developed and applied a structured methodology to assess how the Options compare to one another. The process has:

- been based on industry guidance and consideration of robust evidence
- involved appraisal against appropriate criteria and Strategic Objectives
- been undertaken by qualified individuals
- been developed in consultation with key stakeholders; and
- been designed to withstand testing in future consenting processes.

As part of the OAP, we have considered a wide range of Legal and Policy Obligations and Strategic Objectives for the SRO. Our three Strategic Objectives for the SRO are:

- 1. **Best Value for customers -** We will deliver solutions which provide the best value to our customers whilst discharging our "all best endeavours" legal obligation in the s20 agreement and all other legal and policy requirements and obligations
- 2. **Net Zero Carbon -** We will deliver solutions which ensure that we can continue to make progress towards meeting, and to support and contribute to, Water UK's commitment to become net zero carbon by 2030
- 3. **Adaptability -** We will ensure that all projects within the WfLH programme are sustainable by being flexible and adaptable, including in terms of their:
 - a) Capacity and scalability
 - b) Ability to contribute to strategic reinforcement of the regional and national network
 - c) Ability to rely on appropriate transitional measures to manage risks around delivery timescales, and
 - d) Ability to allow for technological innovation.

Our Legal and Policy Obligations include, for example, that the Selected Option must meet the requirements of the WFD, the draft Water Resources Infrastructure National Policy Statement (dNPS) and must enable us to meet our Supply Duty. Please see the IU Options Appraisal document in which these are described in more detail.

3 Purpose of Interim Update and re-scheduling of Gate 2

In a recent correspondence between RAPID and SW, we set out the reasons for the re-scheduling of Gate 2. Ofwat's guidance in the *PR19 Final Determinations: Strategic Regional Water Resource Solutions* says:

"As gates two and three are aligned to the water resources management plan statutory process, namely the publication of draft and final plans, there is flexibility in these gate timings to acknowledge that external factors may cause the planned dates to change."



That alignment is the case for the standard gates but not for our accelerated gates. Our OAP to date has all been undertaken through a 1-in-200-year lens but one of our three Strategic Objectives is "adaptability" (see above), to ensure suitability to meeting long-term water supply requirements and therefore sustainability of supply. We therefore believe that it is in the best interest of our customers and the environment to take into account now, to the fullest extent possible at this point in time, these additional requirements driven by a move to 1-in-500-year drought.

We have requested of RAPID to move Gate 2 to allow additional work to be done in reviewing the long-term contextual position of Options against these future risks and demand. This change will ensure the Selected Option at Gate 2, is the right one for SW and can take into account the needs of PW, our regulators, stakeholders and our customers in that different context.

To allow time for the further work to be undertaken we have requested of RAPID, and are anticipating reaching agreement, that the arrangements for Gate 2 are modified as follows:

- a) Gate 2 is rescheduled to 6 December 2021
- b) RAPID will agree to expedited determination timescales in respect of the rescheduled Gate 2, to enable SW to get on at pace with progressing the selected Option towards Gate 3. We suggest 21 January 2022 for a Draft Determination. This is on the basis that we commit to share the evidence we are developing for Gate 2 with the relevant regulators in good time before the gate and that their advice is incorporated.

At Gate 2 the highest-ranking Option or Options will be confirmed by SW as our 'Selected Option', and if appropriate a further Option will be confirmed as a 'Back-Up Option', to be taken forward to Gate 3 in the manner described in our submission. SW will detail how our 'Selected Option' is planned to evolve to meet the challenge of a 1-in-500-year water resource planning world by submission at Gate 2 of a 'Selected Option Evolution Plan' and a similar approach will be taken with any Back-Up Option selected.

4 The Options Appraisal Process (OAP)

We presented the Base Case and alternative Options in the Gate 1 Submission. Option B.1 (61 MI/d DO recycled water (indirect) sent to the Lower Itchen abstraction and transferred for treatment at Otterbourne Water Supply Works (WSW)) was not progressed after RAPID's Gate 1 Final Decision, which indicated that Option B.1 was not to be developed further following advice from the EA and Natural England (NE). We progressed all other Options beyond Gate 1, to further assess and determine their feasibility. The Options under consideration following Gate 1 are detailed in Table 1.

| Option | Description |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Option A.1 (Base Case) | 75 MI/d Deployable Output (DO) desalination at Fawley direct to Testwood WSW; |
| Option A.2 | 61 MI/d DO desalination at Fawley direct to Testwood WSW |
| Option B.2 | 61 MI/d DO recycled water (indirect) sent to Environmental Buffer Lake (EBL) and treated at Otterbourne WSW (Water Recycling Plant (WRP) supplied by Budds Farm Wastewater Treatment Works (WTW)); |
| Option B.3 | 61 MI/d DO recycled water (direct) sent to Otterbourne WSW |
| | |

Table 1 - Options descriptions



| Option | Description |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Option B.4 | 75 MI/d DO transfer between HTR and Otterbourne WSW (augmented with a 15 MI/d WRP to supplement HTR) |
| Option B.5 | 75 MI/d DO of recycled water (indirect) sent to EBL and treated at Otterbourne WSW (WRP supplied by Budds Farm and Peel Common WTW); |
| Option D.1 | A combination of 40 MI/d Desalinated water to a large coastal industrial facility with existing South West Water (SWW) supply diverted to SW 30 MI/d In addition a 40 MI/d DO recycled water (indirect) sent to EBL and treated at Otterbourne WSW (WRP supplied by Budds Farm WTW); |
| Option D.2 | 61 MI/d DO transfer between HTR and Otterbourne WSW |

We have developed, and applied, in consultation with key stakeholders, a structured methodology to assess how the Options compared to one another. The purpose is to provide 'Best Value' for customers (as defined by the Water Resources Planning Guideline (WRPG)¹), whilst also being compliant with regulatory requirements and legislation and our Strategic Objectives for the SRO.

The OAP we have developed involves six steps, as illustrated in Figure 1, and detailed below:

1 - Discontinuation of a number of Options after Gate 1 based on clear evidence that the Options were not viable, as a result of additional work carried out after Gate 1

2 - Site and Route Assessment to identify preferred sites and pipeline route corridors and identify a preferred configuration for each Option

3 - Consenting Evaluation to assess each of the Options for consenting risks (for the recommended configurations and with the information available at this time) and rank the Options relative to each other based on consenting risk

4 - Multi-Criteria Decision Assessment (MCDA) was developed as an 'appraisal tool for SW to rank each of the Options according to Best Value'

5 - Decision-making Process took the outcomes of the MCDA and Consenting Evaluation and also the assessments against the agreed Legal and Policy Obligations and Strategic Objectives for the SRO and ranked the Options taking into account the output of those assessments²

6 – Option Evolution Plan – for the EPO and any Back-up Option identified, a plan that will detail how each Option concerned is planned to evolve to meet the increasing future needs of water customers in our region

² Further work will be carried out to produce a Future Needs Assessment and Option Evolution Plan, see Interim Update Activity Plan to Gate 2 document for details



¹ Environment Agency, Natural England and Ofwat, Water Resources Planning Guideline, July 2021, Section 9.1

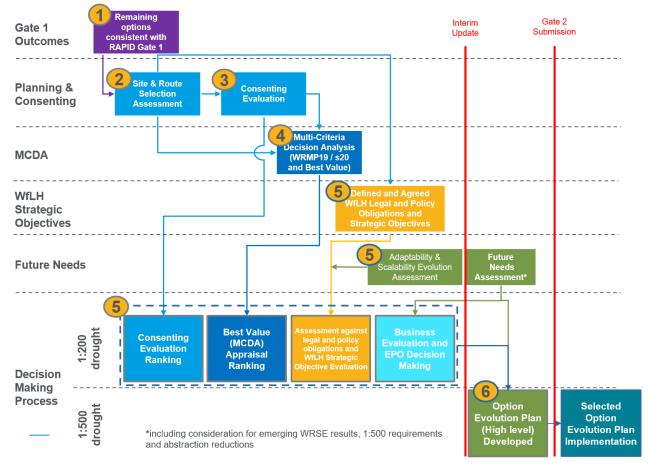


Figure 1 - Overview of the Options Appraisal Process

5 Summary of Options Appraisal results so far

Our OAP ranks the Options against each other, taking into account all factors described above.

The process to date has produced a consistent pattern of rankings, with the likelihood of gaining planning consent, the MCDA and the evaluation of Options against the agreed SW Legal and Policy Obligations and Strategic Objectives, all producing consistent results.

The Options based around enhancing the daily offtake that can be abstracted from the HTR consistently rank the highest, scoring best on both cost and environmental impact.

The Options based around transporting recycled water to a new environmental buffer (a lake or a wetland) to at Otterbourne WSW are consistently middle ranking.

Detailed work was carried out to determine that, at this time, Fawley was the most suitable of the possible locations for a desalination plant. The desalination Options are consistently the lowest ranking, scoring the lowest on both cost and environmental impact. Work carried out since Gate 1 has indicated that the desalination Options are considered to be unlikely to be consentable at the locations considered, at this time. As a result, we propose to discontinue work on the desalination Options (A.1 and A.2) at Fawley.



External assurance of the relevant documents has been carried out and made available to the Directors of both SW and (where relevant) PW in advance of this IU. Full details of assurance will be provided at Gate 2. In addition, a review of the bespoke IU documents has been carried out by our external assurer.

The Option Appraisal work completed to date has indicated that the EPO as of 27 September 2021 is currently Option B.4. Work carried out from now on (detailed in the IU Gate 2 Activity Plan) will mature this process to confirm a Selected Option and a Back-Up Option at Gate 2.

We have worked closely with PW on the development of the D.2 and B.4 Options and will continue to do so ahead of Gate 2.

6 Customer and Stakeholder engagement

Engagement with regulators, including RAPID, Ofwat, EA and Natural England (NE) and Drinking Water Inspectorate (DWI) has taken place continuously via a range of forums and at various levels within the organisations to help shape our approach to the OAP and the identification of the EPO. We have incorporated feedback received into the initial OAP and continued to engage with draft results as the OAP met key milestones leading up to the IU.

In general, we have received support for ceasing work on the desalination Option at this time, in the light of better performing alternatives.

We have also carried out customer research and have followed Consumer Council for Water (CCW) best practice. We have engaged with stakeholders (including local planning authorities, politicians and environmental groups) and customers using a range of approaches. This is described in the Customer and Stakeholder plan provided as part of the Interim Update.

We have engaged with over more than 240 informed customers through deliberative approaches and more than over 1,950 in quantitative surveys. This built on the insight from Gate 1 with more than 250 informed customers, 2,300 households and 350 businesses through joint work with Water Resources South East (WRSE) and the thousands of interviews from WRMP19 (more than 5,000) and PR19 (more than 42,000).

The most comprehensive engagement activity was the non-statutory consultation (as detailed in the IU Customer and Stakeholder Engagement document) carried out early in 2021 in advance of a formal planning application. It covered elements of the desalination Base Case and introduced the back-up alternatives in advance of a planning application for the Base Case.

When comparing the Options of desalination, water recycling and transfers, desalination was consistently rated by the different customer groups as the least Preferred Option. It is well understood to be an effective solution, although the potential environmental impacts and cost implications means customer support is lower.

7 Development of the higher-ranking Options

At Gate 2 we will present a Selected Option Evolution Plan that shows how the Selected Option can evolve, adapting to increasing needs of both our and PW's customers that will arise from the WRSE Regional Plan and WRMP24.

We consider that it is prudent to select a Back-Up Option, in addition to a Selected Option. For an Option to act as a viable back-up, there must be sufficient differentiation in routes and infrastructure to mitigate against consenting or delivery issues that could affect the Selected Option.



8 Information provided in the Interim Update

The names of documents forming the Interim Update, as well as an overview of the content of each, is detailed in Table 2.

Table 2 - Interim Update documents

| Document Name | Document Content |
|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategic Solution Interim Update - Submission Summary | Interim Update including documentation to summarise: the outcomes of our Options appraisal; our proposal to cease development of the desalination Options; and progression of the highest-ranking other Options |
| CDR i Desalination | Technical summary underpinning the feasibility and viability of desalination-based Options. This is the conceptual design report using the RAPID template as if we had been presenting a full Gate 2 submission. We are not intending to present this again at Gate 2. |
| Annex 1 Desalination | Detailed technical analysis of the factors influencing the feasibility and viability of the desalination-based Options. Detailed description of the approach and methods utilised to conduct the analysis. Detailed description of the desalination process and technical engineering components. required to construct and operate a desalination-based Option. This is the technical supporting document to support CDR i as if we had been presenting a full Gate 2 submission. We are not intending to present this again at Gate 2. |
| Strategic Solution Interim Update - Options Appraisal Process | Setting out the Options Appraisal work undertaken since Gate 1 in respect of the desalination Options and the other Options |
| Strategic Solution Interim Update - Efficiency of Expenditure | An update on expenditure incurred to date and proposals on how to treat expenditure incurred up to Gate 2 (including early start Gate 3 activities) |
| Strategic Solution Interim Update - Regulator and other statutory bodies engagement Plan | Intentions for liaising with relevant bodies and our Solution partner up to Gate 2 in respect of the work to be covered in our Gate 2 submission and the requirements of our engagement beyond Gate 2 |
| Strategic Solution Interim Update – Activity plan to Gate 2 | Includes activities covered between the 27 September to the Gate 2 submission on the 6 December and should be read in conjunction with the Gate 1 submission: Gate 2 activity plan. Planned activities for testing, in the context of the move to a 1-in-500-year drought standard required for WRMP24, the outcome of the Options appraisal work undertaken since Gate 1. Planned activities to progress the Selected Option as the potential new base case. |
| Strategic Solution Interim Update - Customer and Stakeholder Engagement | A summary of work that has been carried out to date showing customer and stakeholder preferences for the SROs in the OAP. |



Appendix 1 - Submission Navigation and Glossary

Navigating Southern Water's Interim Update

The SW Interim Update includes the detailed feasibility and concept design report for desalination in the RAPID Accelerated Gate 2 Submission Template and multiple technical annexes that substantiate the information included and provide evidence of our technical development, Options appraisal work and stakeholder engagement on the Options as detailed in the Submission Summary.

There are eight documents forming the Interim Update. The Interim Update submission summary (this document), the Conceptual Design and Detailed Feasibility document (CDR i Desalination), and five supporting annexes.

The supporting documents include detailed technical information on pausing work on the Desalination solution and progressing with the other Options. These documents set out the planned activities for testing, in the context of the move to a 1-in-500-year drought standard required for WRMP24, and the outcome of the Options appraisal work we have undertaken since Gate 1. A structure of this Interim Update submission is illustrated in Figure 2.

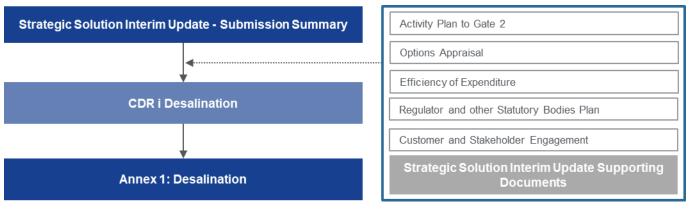


Figure 2 - Interim Update submission structure



Interim Update Submission Glossary

| 1-in-200-yearA severe drought - the return period of a significant drought and is the design drought year in WRMP191-in-500-yearA softerme drought - WRMP19 models 1-in-500-year ovents as sensitivities but does not proposed infrastructure solutions to meet this droughtAAAppropriate AssessmentAACEAssociation for the Advancement of Cost EngineeringABEAll Best EndeavoursABMAAmerican Boiler Manufacturers AssociationABPAssociation of Britsh PortsACWGAll Company Working GroupADOAverage Deployable OutputADSLAsymetric Digital Subscriber LineAEIAdverse Effect on Integrity (HRA terminology)AIAggressiveness IndexALCAverage Incremental CostALMAccess, Lifting and Maintenance reviewALSLAsymetre Digital Subscriber LineALSLAsst Laboratories (UK) LimitedALFAsset Management PlanAIPAsset Management PlanAMP7Asset Management Plan 7 - the UK water industry's seventh AMP, detailing the programme of capital works to be completed between 1st April 2020 and 31st March 2025ANRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOPAbove Ordinance DatumADPAbove Ordinance DatumADPAbove Ordinance DatumADPAsset Management Plan 7 - the UK water industry's seventh AMP, detailing the programme of capital works to be completed between 1st April 2020 and 31st March 2025ADRAbove Ordinance DatumADPAbove Or | Term or acronym | Definition |
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| AEolAdverse Effect on Integrity (HRA terminology)AIAggressiveness IndexAICAverage Incremental CostALCAgricultural Land ClassificationALMAccess, Lifting and Maintenance reviewALPAsset Lifecycle ProcessALSALS Laboratories (UK) LimitedAMCAlarm Monitoring CentreAMPAsset Management PlanAMP7Asset Management Plan 7 - the UK water industry's seventh AMP, detailing the programme of capital works to be completed between 1st April 2020 and 31st March 2025AMRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOCAssimilable Organic CarbonAODAbove Ordinance DatumAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | ADO | Average Deployable Output |
| AlAggressiveness IndexAICAverage Incremental CostALCAgricultural Land ClassificationALMAccess, Lifting and Maintenance reviewALPAsset Lifecycle ProcessALSALS Laboratories (UK) LimitedAMCAlarm Monitoring CentreAMPAsset Management PlanAMP7Asset Management PlanAMP7Asset Management PlanAMRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOCAssimilable Organic CarbonAODAbove Ordinance DatumAOPAdvanced Oxidation ProcessAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCorregionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | ADSL | Asymmetric Digital Subscriber Line |
| AICAverage Incremental CostALCAgricultural Land ClassificationALMAccess, Lifting and Maintenance reviewALPAsset Lifecycle ProcessALSALS Laboratories (UK) LimitedAMCAlarm Monitoring CentreAMPAsset Management PlanAMP7Asset Management Plan 7 - the UK water industry's seventh AMP, detailing the programme of capital works to be completed between 1st April 2020 and 31st March 2025AMRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOCAssimilable Organic CarbonAODAbove Ordinance DatumAONBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAQMAAir Quality Management Area | AEol | Adverse Effect on Integrity (HRA terminology) |
| ALCAgricultural Land ClassificationALMAccess, Lifting and Maintenance reviewALPAsset Lifecycle ProcessALSALS Laboratories (UK) LimitedAMCAlarm Monitoring CentreAMPAsset Management PlanAMP7Asset Management Plan 7 - the UK water industry's seventh AMP, detailing the programme of capital works to be completed between 1st April 2020 and 31st March 2025AMRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOCAssimilable Organic CarbonAODAbove Ordinance DatumAONBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Oftwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | AI | Aggressiveness Index |
| ALMAccess, Lifting and Maintenance reviewALPAsset Lifecycle ProcessALSALS Laboratories (UK) LimitedAMCAlarm Monitoring CentreAMPAsset Management PlanAMP7Asset Management Plan 7 - the UK water industry's seventh AMP, detailing the programme of capital works to be completed between 1st April 2020 and 31st March 2025AMRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOCAssimilable Organic CarbonAODAbove Ordinance DatumAONBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | AIC | Average Incremental Cost |
| ALPAsset Lifecycle ProcessALSALS Laboratories (UK) LimitedAMCAlarm Monitoring CentreAMPAsset Management PlanAMP7Asset Management Plan 7 - the UK water industry's seventh AMP, detailing the programme of capital works to be completed between 1st April 2020 and 31st March 2025AMRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOCAssimilable Organic CarbonAODAbove Ordinance DatumAONBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | ALC | Agricultural Land Classification |
| ALSALS Laboratories (UK) LimitedAMCAlarm Monitoring CentreAMPAsset Management PlanAMP7Asset Management Plan 7 - the UK water industry's seventh AMP, detailing the programme of capital works to be completed between 1st April 2020 and 31st March 2025AMRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOCAssimilable Organic CarbonAODAbove Ordinance DatumAONBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | ALM | Access, Lifting and Maintenance review |
| AMCAlarm Monitoring CentreAMPAsset Management PlanAMP7Asset Management Plan 7 - the UK water industry's seventh AMP, detailing the programme of capital works to be completed between 1st April 2020 and 31st March 2025AMRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOCAssimilable Organic CarbonAODAbove Ordinance DatumAONBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | ALP | Asset Lifecycle Process |
| AMPAsset Management PlanAMP7Asset Management Plan 7 - the UK water industry's seventh AMP, detailing the programme of capital works to be completed between 1st April 2020 and 31st March 2025AMRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOCAssimilable Organic CarbonAODAbove Ordinance DatumAONBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | ALS | ALS Laboratories (UK) Limited |
| AMP7Asset Management Plan 7 - the UK water industry's seventh AMP, detailing the programme of capital works to be completed between 1st April 2020 and 31st March 2025AMRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOCAssimilable Organic CarbonAODAbove Ordinance DatumAONBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | AMC | Alarm Monitoring Centre |
| AMP /to be completed between 1st April 2020 and 31st March 2025AMRAutomatic Meter Reading - A type of water meter that can be read remotely using drive-by technologyAOCAssimilable Organic CarbonAODAbove Ordinance DatumAONBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | AMP | Asset Management Plan |
| AOCAssimilable Organic CarbonAODAbove Ordinance DatumAOBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | AMP7 | |
| AODAbove Ordinance DatumAONBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | AMR | Automatic Meter Reading - A type of water meter that can be read remotely using drive-by technology |
| AONBArea of Outstanding Natural Beauty - an area of countryside in England, Wales or Northern Ireland which has been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | AOC | Assimilable Organic Carbon |
| AONBbeen designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve and enhance its natural beautyAOPAdvanced Oxidation ProcessAPCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | AOD | Above Ordinance Datum |
| APCAdditional Project CostsAppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | AONB | been designated for conservation under the Countryside and Rights of Way Act 2000 to protect, conserve |
| AppointeeCompany that has been appointed by Ofwat to manage water services across a particular geographical area or regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | AOP | Advanced Oxidation Process |
| Appointeeor regionAppraisalAny form of assessment that follows a structured process, either standard industry practice or developed by SW, to evaluate certain criteria or characteristicsAQMAAir Quality Management Area | APC | Additional Project Costs |
| Appraisal SW, to evaluate certain criteria or characteristics AQMA Air Quality Management Area | Appointee | |
| | Appraisal | |
| ASR Aquifer Storage Recharge | AQMA | Air Quality Management Area |
| | ASR | Aquifer Storage Recharge |



| Term or acronym | Definition |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Associated Development | Under the Planning Act 2008, development associated with the principal development, which supports the construction or operation of the principal development or to address its impacts |
| ASTR | Aquifer Storage Transfer and Recovery |
| Back-Up Option | Gate 2 will confirm a Selected Option for SW. The Back-Up Option is a secondary option which will be progressed on an alternative path and activated in the event that the Selected Option becomes undeliverable. |
| Back-Up Option Evolution Plan | A plan to be submitted by SW at Gate 2 of the Gated Process, detailing how the Back-Up Option is expected to evolve to meet the increasing future needs of water customers in SW's region as set out in the Future Needs Assessment |
| Base Case | The preferred strategy in WRMP19 including Option A.1 (75MI/d desalinated water from Fawley to Testwood WSW) |
| BAU | Business As Usual |
| BB | Building Blocks |
| BCM | Buildability Construction Management |
| BEIS | Department for Business, Energy & Industrial Strategy |
| Best Value for Customers | Design, delivery and operation of an asset that protects the water supply to SW customers with as little negative impact as possible on them and their local environment, whilst meeting national, regional and SW corporate objectives |
| BGS | British Geological Survey is a world-leading geological survey. It focuses on public-good science for government, and research to understand earth and environmental processes |
| BI | Business Intelligence |
| BIM | Building Information Modelling |
| BNG | Biodiversity Net Gain |
| BOD | Biological Oxygen Demand |
| BOTEX | Baseline Total Expenditure |
| BP | Bio-polymers |
| BPT | Break Pressure Tank |
| BS | British Standards |
| BWRO | Brackish Water Reverse Osmosis |
| CA | Cellulose Acetate |
| CAG | Customer Action Group |
| CAP | Competitively Appointed Provider |
| CAPEX | Capital Expenditure |
| Catchment | The area of region where all water flows to a single point, e.g. for a wastewater catchment, all wastewater flows to a single WTW for treatment. Note, refer to WWC for wastewater catchment. |
| CAW | Carbon Accounting Workbook |
| СВА | Cost Benefit Appraisal |
| CBS | Cost Breakdown Structure |
| ССМА | Coastal Change Management Area |
| ССРР | Calcium Carbonate Precipitation Potential |



| Term or acronym | Definition |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CCS | CCS Candy estimating platform used by Cost Estimating Team |
| CCW | Consumer Council for Water |
| CDE | Common Data Environment |
| CDM | Construction Design and Management CDM Regulations |
| CDOC | Chromophoric Dissolved Organic Carbon |
| CDR | Conceptual Design Report |
| CEA | Cumulative Effects Assessment |
| CEB | Chemically Enhanced Backwash |
| CEC | Constituents of Emerging Concern Contaminants of Emerging Compounds |
| CEFAS | Centre for Environment, Fisheries and Aquaculture Science |
| CEMP | Construction Environmental Management Plan - document that details the measures and actions to be taken to minimise environmental impacts during construction |
| CFA | Continuous Flight Auger |
| CFD | Computational Fluid Dynamics |
| CIP | Cleaning In Place - an enhanced chemical cleaning cycle intended to remove the most strongly adhered fouling agents from an asset, in this context from MF, UF or RO membranes. CIP is a non-routine activity, typically occurring at intervals of a month or longer. |
| CIT | Cost Intelligence Team |
| Cluster (as used in MCDA in Options Appraisal) | A group of criteria with a common theme e.g. environment, society |
| Cluster (as used in Site and Route selection in Options Appraisal) | Geographical groupings of terrestrial, marine intake and marine outfall parcels which are configured together |
| CNI | Critical National infrastructure (Including water supply) |
| COD | Chemical Oxygen Demand |
| СОМАН | Control of Major Accident Hazard Regulations 1999 |
| Component | The key engineering items that contribute to each option e.g. pipeline, water recycling plant |
| Configuration | The structure of each Option (e.g. technology choice, route to deliver water) |
| Consenting Evaluation | Assessment of each option as part of the OAP against a range of planning, consenting, land and environmental criteria informed by relevant policy and legislative requirements in order to understand the likely consenting risks with each option |
| Constrained List | The options list from which the Long List Options were selected |
| CORMIX | CORMIX modelling software |
| COVID19 | Coronavirus Disease |
| СР | Control Point |
| CPIH | Consumer Prices Index Including Owner Occupiers' Housing Costs (UK) |
| CRoW | Countryside and Rights of Way |
| | |



| Term or acronym | Definition |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CSMG | Common Standards Monitoring Guidance |
| CSMR | Chloride-to-Sulphate Mass Ratio |
| Ct | The product of the concentration of a disinfectant and the contact time with the water being disinfected |
| СТ | Contact Tank |
| CV | Curriculum vitae |
| D&B | Design and Build |
| DAF | Dissolved Air Flotation |
| DAPI | 4',6-diamidino-2-phenylindole |
| DBFOM | Design, Build, Finance, Operate & Maintain |
| DBP | Disinfection By-products |
| DC | Data Centre |
| DCO | Development Consent Order - a DCO is a statutory instrument (law) that grants consent for a Nationally Significant Infrastructure Project under the terms of the Planning Act 2008. A DCO can combine consent to develop, operate and maintain a project, alongside a range of other approvals that would normally have to be obtained separately, such as listed building consent, deemed marine licence and certain environmental consents. A DCO can also contain powers for the compulsory acquisition and temporary possession of land. |
| Defra | Department for Environment Food & Rural Affairs - Defra is the government department responsible for environmental protection, food production and standards, agriculture, fisheries and rural communities. |
| DfT | Department for Transport |
| DI | Distribution Input |
| DIC | Differential Interference Contrast |
| Dissolved Air Flotation (DAF) | A water treatment process that clarifies wastewaters by the removal of suspended matter such as oil or solids. |
| DMA | District Metered Area |
| DMF | Dual-Media Filter |
| DMWG | Decision-Making Working Group |
| DN | Nominal Diameter |
| DNO | Distribution Network Operator |
| dNPS | draft National Policy Statement |
| dNPSWRI | draft National Policy Statement for Water Resources Infrastructure |
| DO | Dissolved Oxygen |
| DO | Deployable Output |
| DOC | Dissolved Organic Carbon |
| DOM | Dissolved Organic Matter |
| DP | Drought Plan |
| DPC | Direct Procurement for Customers |
| DPR | Direct Potable Reuse |
| DQM | Data Quality Management |



| Term or acronym | Definition |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drought Order | Powers granted by the Secretary of State during drought to modify abstraction / discharge arrangements on a temporary basis |
| Drought Permit | An authorisation granted by the Environment Agency under drought conditions, which allows for abstraction / impoundment outside the schedule of existing licences on a temporary basis |
| DS | Dry Solids |
| DTM | Digital Terrain Model |
| DWF | Dry Weather Flow |
| DWI | Drinking Water Inspectorate |
| DWIRMAS | Drinking Water Inspectorates Risk Management Accreditation Scheme |
| DYAA | Dry year annual average - represents a period of low rainfall and unrestricted demand |
| DYCP | The period(s) during the year when water resource zone supply demand balances are at their lowest |
| DYMDO | Dry year minimum deployable output - this is the autumn period in a dry year when groundwater levels and river flows are at their lowest and sources are constrained to their minimum deployable outputs |
| E&C | Engineering & Construction |
| EA | Environment Agency |
| EAM | Enterprise Asset management |
| EBCT | Empty Bed Contact Time |
| EBL | Environmental Buffer Lake |
| EBU Emerging Back-Up Option | Approaching Gate 2 there will be an emerging Back-Up Option for SW. The Back-Up Option is a secondary option which will be progressed on an alternative path and activated in the event that the Selected Option becomes undeliverable |
| ECI | Early Contractor Involvement |
| EDC | Endocrine Disrupting Compound |
| EEM | Excitation Emission Matrix |
| EFM | Enhanced Flux Maintenance - also called chemically enhanced backwashing. EFM is specific to membrane filtration systems whereby chemicals are dosed into washwater to enhance the cleaning performance. |
| EfW | Energy from Waste |
| EHV | Extra High Voltage |
| EIA | Environmental Impact Assessment - the aim of EIA is to protect the environment by ensuring that a relevant authority (local planning authority or Secretary of State) when deciding whether to grant a planning permission or DCO for a project which is likely to have significant effects on the environment does so in the full knowledge of the likely significant effects and takes this into account in the decision making process. EIA also enhances public engagement in the process as consultation on EIA is mandatory. |
| EICA | Electrical, Instrumentation, Control and Automation |
| EMS | European Marine Site |
| ENCA | Enhancing a Natural Capital Approach |
| ENG | Environmental net gain |
| EP | Engagement Plan (with Regulators and other statutory bodies) |
| EPC | Engineering, Procurement and Construction |
| EPH | Extractable Petroleum Hydrocarbons |
| | |



| Term or acronym | Definition |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EPO Emerging Preferred Option | At the Interim Update an Emerging Preferred Option has been identified through the OAP, this will be become the Preferred Option at Gate 2 |
| EPO Emerging Preferred Option | At the Interim Update an Emerging Preferred Option has been identified through the Options Appraisal process, this will be become the Selected Option at Gate 2 |
| EPP | Evidence Plan Process |
| ERD | Energy Recovery Devices |
| ERP | Enterprise Resource Planning |
| ES | Environmental Statement required as part of a planning application that is EIA development. |
| ESB | Engineered Storage Buffers |
| ESEV | Environmental, Social, Economic, Valuations |
| ESW | Essex and Suffolk Water |
| ETS | Engineering Technical Services |
| EU | European Union |
| EUECJ | European Union Court of Justice of the EU communities (translated) |
| EVH | Extra High Voltage |
| EVL | Environment Values Look-up |
| FA | Immunofluorescence assay |
| Fawley Site | The site described in WRMP19 |
| FCERM | Flood and Coastal Erosion Risk Management |
| FD or Final Determination | Final Determination - set of documents published by Ofwat in December 2019 that specify the obligations during AMP7 |
| FE | Final Effluent |
| FFT | Full Flow to Treatment (process capacity) |
| FOG | Fats, Oils & Greases |
| FRT | Failure Response Time |
| FTE | Full Time Equivalent |
| FTS | Find-a-Tender service |
| Future Needs Assessment | The further work to be carried out by SW prior to Gate 2 of the Gated Process to test the suitability of each of the Options to meet long term water supply requirements and therefore sustainability of supply. This work will test the outcome to date of our OAP, which has been undertaken in the context of a 1-in-200 year drought standard and WRMP19, by considering the suitability of each of the Options in the context of the transition to regional water resources planning, the requirements of WRMP24, a 1-in-500 year drought standard and the need to consider environmental destination. |
| FWL | Fawley Waterside Limited |
| Gated Process | The formal staged process, run by Ofwat, for specific water companies to investigate solutions and for regulators to review progress and determine how, and if, the solutions will progress. |
| GBNNSS | Great British Non-Native Species Secretariat |
| GFS | Glass Fused to Steel |
| GHGs | Green House Gases |
| GIS | Geographic Information System - computer software system for capturing, storing, checking, and displaying data related to positions on the Earth's surface. |



| Term or acronym | Definition |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GRC | Government Risk Control |
| Grid | Bulk transfer distribution infrastructure |
| Ground water | Water held underground in the soil or in voids in rock |
| GSP | Grid Supply Point |
| GW / Gateway | Gate/stage of the RAPID Gated Process |
| GWDTE | Groundwater Dependent Terrestrial Eco-systems |
| H&S | Health and Safety |
| НА | Hampshire Andover WRZ |
| НАА | Haloacetic Acids |
| HAZOP | Hazard and Operability Review |
| HGVs | Heavy Goods Vehicles |
| HIC | Hazard Identification Checklist |
| нк | Hampshire Kingsclere WRZ |
| HLPS | High-Lift Pumping Station |
| HLR | Hydraulic Loading Rate |
| HMI | Human Machine Interface |
| HMWLP | Hampshire Minerals and Waste Local Plan |
| HoF | Hands off Flows - EA specifies a level of flow in a river below which any abstractor may take no water at all |
| HR | Hampshire Rural WRZ |
| HRA | Habitats Regulation Assessment - assessment to consider potential effects on designated European sites |
| HS | Humic Substances |
| HSE | Hampshire Southampton East |
| HSW | Hampshire Southampton West |
| HT | Havant Thicket |
| HTR | Havant Thicket Reservoir |
| HTWSR | Havant Thicket Winter Storage Reservoir |
| HV | High Voltage |
| HW | Hampshire Winchester WRZ |
| IAP | Initial Assessment of Plans - set of documents published by Ofwat in January 2019 which first set out the proposed strategic resource process and Gated Process |
| IAQM | Institute of Air Quality Management |
| IEMA | Institute of Environmental Management and Assessment |
| IEX | Ion Exchange |
| lloT | Industrial Internet of Things |
| ILR | Inverse Larson Ratio |
| IMS | Immunomagnetic separation |



| Term or acronym | Definition |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Infra | Works outside of the boundary on existing or proposed Southern Water sites |
| INNS | Invasive Non Native Species |
| Inshore Fisheries and Conservation Authorities (IFCA) | Committees or joint committees of the local authorities that fall within an IFC district. They are tasked with the sustainable management of inshore sea fisheries resources in their local area. They are made up of representatives from the constituent local authorities along with people from across the different sectors that use or are knowledgeable about the inshore marine area, such as commercial and recreational fishermen, environmental groups and marine researchers, who offer their time voluntarily. |
| Interim Update (IU) | Submission to RAPID on 27 September 2021 focusing on SW's decision to no longer progress the desalination options as part of the Gated Process. |
| IoT | Internet of Things |
| IOW | Isle of Wight |
| IP CCTV | Internet Protocol Closed-Circuit Television |
| IPR | Indirect Potable Reuse |
| IROPI | Imperative Reasons of Overriding Public Interest |
| IT | Information Technology |
| IT/OT | Information Technology / Operational Technology |
| ITA | Independent Technical Advisor |
| ITT | Invitation to Tender |
| IX | Ion Exchange |
| JNCC | Joint Nature Conservation Committee |
| LAT | Lowest Astronomical Tide |
| LCDR | Low Complexity Delivery Route |
| LC-OCD | Liquid Chromatography Organic Carbon Detection |
| LED | Light Emitting Diode |
| Legal and Policy Obligations | The legal obligations and government (including other public bodies) policy obligations relevant to the OAP and SW's selection of the SRO at the next stage of the Gated Process |
| LIDAR | Light Detection and Ranging |
| LMW | Low molecular weight |
| LNR | Local Nature Reserve |
| Local Harbour Authorities | Independent body that is responsible for running a harbour. Most harbours are administered by statutory harbour authorities that are governed in accordance with local legislation. |
| LOD | Limit of Detection |
| Long List | The ten Options, including the Base Case and the alternatives. |
| LPA | Local Planning Authorities - the local government body that is empowered by law to exercise planning functions for a particular area either of a district, borough unitary or county council. |
| LPCB | Loss Prevention Certification Board |
| LSE | Likely Significant Effect |
| LSI | Langelier Saturation Index |
| LSO | Long Sea Outfall |



| Term or acronym | Definition |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LVIA | Landscape and Visual Assessment |
| LWS | Local Wildlife Site |
| М | Million |
| M&E | Mechanical and Electrical |
| MAGIC | Multi Agency Geographic Information for the Countryside |
| Management Information System (MIS) | An information system used for decision-making, and for the coordination, control, analysis, and visualization of information in an organization. |
| MAR | Managed Aquifer Recharge |
| Marine Strategy Framework Directive (MSFD) | Directive 2008/56/EC of the European Parliament and of the Council of 17 June 2008 establishing a framework for community action in the field of marine environmental policy. A European Directive aimed at achieving or maintaining Good Environmental Status in European seas. |
| MarLIN | Marine Life Information Network |
| MBR | Membrane Bio-Reactors |
| MCC | Motor Control Centre |
| MCDA | Multi Criteria Decision Analysis |
| MCZ | Marine Conservation Zone |
| MCZA | Marine Conservation Zone Assessment |
| MDL | Minimum Detection Limit |
| MDO | Minimum Deployable Output - Deployable output for the period when groundwater levels are at their lowest |
| MEAT | Most Economically Advantageous Tender |
| Mechanical, Electrical, Instrumentation, Control and Automation (MEICA) | Discipline related to mechanical and electrical engineering |
| MED | Multi-effect Distillation |
| MF | Microfiltration |
| MF-UF | Microfiltration/Ultrafiltration |
| MGD | Million Gallons per Day |
| MGJv | Southern Water Delivery Partner |
| MHCLG | Ministry of Housing, Communities and Local Government - This has recently been changed to Department of Levelling Up, Housing and Communities. |
| MI/d | Megalitres (million litres) per day |
| MML | Mott MacDonald Limited |
| ММО | Marine Management Organisation - licence, regulate and plan marine activities in the seas around England so that they're carried out in a sustainable way. MMO is an executive non-departmental public body, sponsored by the Department for Environment, Food & Rural Affairs. |
| MOD | Ministry of Defence - the British government department responsible for implementing the defence policy set by Her Majesty's Government |
| MRF | Minimum Retained Flow |



| Term or acronym | Definition |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MSF | Multi-Stage Flash |
| NC | Natural Capital |
| NCA | National Character Area |
| NCA | Natural Capital Assessment |
| NCSC | National Cyber Security Centre - NCSC.GOV.UK |
| ND | Nominal Diameter |
| NDMA | N-nitrosodimethylamine |
| NE | Natural England |
| NEC | New Engineering Contract |
| NFNP | New Forest National Park |
| NIS | Network and Information Systems Regulations 2018: Security standard |
| NNR | National Nature Reserve |
| NOM | Natural Organic Matter |
| Non Infra | Works carried out on existing or proposed Southern Water sites |
| NPPF | National Planning Policy Framework - sets out the Government's economic, environmental and social planning policies for England. The policies set out in the framework apply to the preparation of local and neighbourhood plans and to decisions on planning applications under the TCPA regime. The policies set out in the framework apply to the preparation of local and neighbourhood plans and to decisions on planning applications under the TCPA regime. |
| NPS | National Policy Statement - produced by government under the Planning Act 2008. They comprise the government's objectives for the development of nationally significant infrastructure in a particular infrastructure sector (energy, transport, water, waste water and waste). There are currently 12 designated NPS, setting out government policy on different types of national infrastructure development. Applications for DCOs are decided in accordance with any relevant NPS(s). The Water Resources Infrastructure NPS is currently in draft form and must include an explanation of how the policy takes account of government policy relating to the mitigation of, and adaptation to, climate change and design. They comprise the government's objectives for the development of nationally significant infrastructure in a particular infrastructure sector (energy, transport, water, and waste). There are currently 11 designated NPS, setting out government policy on different types of national infrastructure development. Applications for DCOs are decided in accordance with NPS(s). |
| NPV | Net Present Value |
| NSI | Net Social Impact |
| NSIP | Nationally Significant Infrastructure Project |
| NTU | Nephelometric Turbidity Units |
| NWEBS | National Water Environment Benefit Survey |
| O&M | Operation and Maintenance |
| OAM | Operational Asset Management Programme (EAM and GIS) |
| OAP | Options Appraisal Process |
| ОВ | Optimism Bias |
| OBC | Outline Business Case (DPC related) |
| OBR | Office for Budget Responsibility |
| | |



| acronymContractODIOutcome Delivery IncentiveODPMOffice of Deputy Prime MinisterOEPOption Evolution PlansOFTOOffshore Transmission OwnerOfwatWater Services Regulation Authority - The economic regulator of the water sector in England and WalesOGPOxford Global ProjectsOHOverheadOJEUOfficial Journal of the European UnionOPEXOperational ExpenditureOPHContractor Overhead & Profit. |
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| OPCOpen Platform CommunicationsOPEXOperational ExpenditureOPHContractor Overhead & Profit. |
| OPEX Operational Expenditure OPH Contractor Overhead & Profit. |
| OPH Contractor Overhead & Profit. |
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| Option Single proposed method considered as part of Gate 2 submission. The Options include A.1, A.2, B.2-B.5, D.1 and D.2. Please note, some options were removed prior to Interim Update. For consistency with the terminology used in PR19 Final Determinations and the RAPID Strategic Solution Accelerated Gate 1 Submission: Initial Concept Design template. These alternatives are described as Options, however, because SW is using all best endeavours to deliver the Base Case, these are seen as alternatives, rather than 'options' as such. |
| Option A.1 75 MI/d Deployable Output (DO) desalination at Fawley direct to Testwood WSW; |
| Option A.2 61 MI/d DO desalination at Fawley direct to Testwood WSW |
| Option B.1 61 MI/d Recycled water sent to Lower Itchen, abstraction and transferred for treatment at Otterbourne Water Supply Works (WSW) |
| Option B.2 61 Ml/d DO recycled water (indirect) sent to Environmental Buffer Lake (EBL) and treated at Otterbourne WSW (Water Recycling Plant (WRP) supplied by Budds Farm Wastewater Treatment Works (WTW)); |
| Option B.3 61 MI/d DO recycled water (direct) sent to Otterbourne WSW |
| Option B.4 75 MI/d DO transfer between HTR and Otterbourne WSW (augmented with a 15 MI/d WRP to supplement HTR) |
| Option B.5 75 MI/d DO of recycled water (indirect) sent to EBL and treated at Otterbourne WSW (WRP supplied by Budds Farm and Peel Common WTW); |
| Option D.1 A combination of 40 MI/d Desalinated water to a large coastal industrial facility with existing South West Water (SWW) supply diverted to SW 30 MI/d In addition a 40 MI/d DO recycled water (indirect) sent to EBL and treated at Otterbourne WSW (WRP supplied by Budds Farm WTW); |
| Option D.2 61 MI/d DO transfer between HTR and Otterbourne WSW |
| Option hierarchy The 'best value for customers' hierarchy of Options requested in the RAPID Strategic Solution Accelerated Gate 1 Submission: Initial Concept Design template |
| ORAT Operational Readiness and Training |
| ORVal Outdoor Recreation Valuation Tool |
| OSEC On-site Electrolytic Chlorination |
| OT Operational Technology |
| OTT Operational Technology Transformation programme |





| Outline Option A plan to be developed by SW for each Option for the purposes of the remainder of the OAP, outlining how the Option would be expected to evolve to meet the increasing future needs of water customers in SW's region as set out in the Future Needs Assessment PAIDS Piping and Instrumentation Diagram PA Polyamide Parceal Identification of polentially suitable sites for the Options PB Preferred Bidder (procurement) PCC Per capita Consumption - Amount of water typically used by one person per day PCV Prescribed Concentration or Value PD Performed Bidder (procurement) PD0 Performed Bidder (procurement) PD1 Prescribed Concentration or Value PD Performed Bidder (procurement) PD0 Performed Bidder (procurement) PD1 Perscribed Concentration or Value PD1 Perstribed Concentration or Value PD2 Performed Bidder (procurement) PD3 Performatically grants water underfakers planning permission for certain types of development, in accordance with the provisions of the GDPO 2015 PD4 Performatically grants at mininary Ecological Appraisal PE1 Preleminary Ecological Appraisal | Term or acronym | Definition |
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| PA Polyamide Parcel Identification of potentially suitable sites for the Options PB Preferred Bidder (procurement) PCC Per Capital Consumption - Amount of water typically used by one person per day PCV Prescribed Concentration or Value PD 2016 (the GPDO 2015) automatically grants water undertakers planning permission for certain types of development , in accordance with the provisions of the GDPO 2015 PD0 Peak Deployable Output - Deployable output for the period in which there is the highest demand PD1 Pressure Decay Test PEA Preliminary Ecological Appraisal PEI Preliminary Environmental Information Report PFAS Perleminary Environmental Information Report PFA Preliminary Easibility Assessment PFAS Per-and PolyFluorAlky Substances PFD Process Flow Diagram - a diagram commonly used in chemical and process engineering to indicate the general flow of plant processes and equipment. PFI Private Finance Initiative PHE Public Health England PID Probability Impact Diagram PIN Prior Information Notice (procurement) PIN ProlorInformation Notice (p | | the Option would be expected to evolve to meet the increasing future needs of water customers in SW's |
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| PCV Prescribed Concentration or Value PD Provide Concentration or Value PD Prescontration Concentration or Value PT Pressure Decay Test PEA Preliminary Environmental Information PER Preliminary Environmental Information Report PFA Process Flow Diagram | РВ | Preferred Bidder (procurement) |
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| PoCProof of ConceptPPCPPharmaceuticals and Personal Care ProductsPPPPublic Private PartnershipPQQPre-Qualification Questionnaire (procurement)PR192019 Price Review | РМО | Project Management Office |
| PPCPPharmaceuticals and Personal Care ProductsPPPPublic Private PartnershipPQQPre-Qualification Questionnaire (procurement)PR192019 Price Review | POC | Particulate Organic Carbon |
| PPPPublic Private PartnershipPQQPre-Qualification Questionnaire (procurement)PR192019 Price Review | PoC | Proof of Concept |
| PQQPre-Qualification Questionnaire (procurement)PR192019 Price Review | PPCP | Pharmaceuticals and Personal Care Products |
| PR19 2019 Price Review | PPP | Public Private Partnership |
| | PQQ | Pre-Qualification Questionnaire (procurement) |
| PRA Preferred Route Announcement (in DCO process) | PR19 | 2019 Price Review |
| | PRA | Preferred Route Announcement (in DCO process) |



| Term or acronym | Definition |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Preferred Strategy | Final strategy for the Western Area as described in WRMP19 (formerly referred to as Strategy A in draft WRMP19) and is what is required to be delivered by the Section 20 agreement |
| PRISM | Southern Water Cost Management System |
| Programme | All activities included within the scope of WFLH |
| Project | Specific activities required to deliver one of the options / solutions / schemes |
| PRoW | Public Rights of Way - public right of way is a right by which the public can pass along linear routes over land at all times. Although the land may be owned by a private individual, the public have a legal right across that land along a specific route. |
| PS | Pumping Station - facilities including pumps and equipment for pumping fluids from one place to another. |
| PSTN | Public Switched Telephone Network |
| PW | Portsmouth Water |
| PWWS | Passive Wedge Wire Screens |
| QCRA | Quantitative Cost Risk Analysis |
| QSRA | Quantitative Schedule Risk Analysis |
| R&V | Risk and Value (Southern Water collaborative review meeting and technical checkpoint) |
| RAG | Red Amber Green |
| RAMS | Risk Assessment Method Statements |
| RAP | Remediation Action Plan (provided to RAPID on 31st March and 26th July 2021) |
| RAPID | Regulatory Alliance for Progressing Infrastructure Development - formed to help accelerate the development of new water infrastructure and design future regulatory frameworks. Made up of the 3 water regulators: Ofwat, Environment Agency and Drinking Water Inspectorate. It was established with the intention of providing a seamless regulatory interface, working with the industry to promote the development of national water resources infrastructure that is in the best interests of water users and the environment. |
| RBMP | River Basins Management Plan |
| RBMP2 | River Basin Management Plans 2 |
| RCC | Regional Control Centre |
| RCV | Regulatory Capital Value |
| Regional Plan / Regional Planning (WRSE related) | Water Resource South East's Regional Plan |
| Reject Water | Waste product from the Reverse Osmosis process |
| RFI | Request for Information |
| RGF | Rapid Gravity Filters |
| RIGS or RIGGS | Regionally Important Geological Sites (RIGS) or Regionally Important Geological and Geomorphological Sites (RIGGS). Locally designated sites of local, national and regional importance for geodiversity (geology and geomorphology). |
| RO | Reverse Osmosis - the process used for removing salt from either sea or brackish water. |
| Routes | A number of alternative routes have been identified for the pipeline component for the sub-option and configurations. |
| RPI | Retail Price Index |



| Term or acronym | Definition |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RPS | Royal Pharmaceutical Society |
| RTU | Remote Terminal Unit / Remote telemetry Unit |
| RTW4 | WRc water quality model |
| RWPS | Raw Water pumping station |
| S&I | Studies and Investigations |
| s20 | Section 20 - the agreement signed by Southern Water and the Environment Agency during the abstraction licence Inquiry in March 2018 under Section 20 of the Water Resources Act 1991. |
| SAC | Special Area of Conservation - land designated under Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora. Important high-quality conservation sites that will make a significant contribution to conserving the habitats and species identified in Annexes I and II, respectively, of the Habitats Directive. The listed habitat types and species are those considered to be most in need of conservation at a European level (excluding birds). |
| SACO | Supplementary Advice on Conservation Objectives |
| SANG | Suitable Alternative Natural Greenspace - an area that is aimed at protecting a Special Protection Area. Surrounding these SPAs are buffer zones in which development is constrained to prevent damage to the SPA itself. These buffer zones are called the SANGs and development is limited in these areas. |
| SAR | Sodium Adsorption Ratio |
| SCADA | Supervisory Control and Data Acquisition |
| Scheme | Something to be delivered which is outside of the solutions and Gate 1 but is a requirement of the WRMP19 or Section 20 agreement or other SW commitments. |
| SD | Software Defined |
| SDB | Supply Demand Balance |
| SDI | Silt Density Index |
| SDNPA | South Downs National Park Authority |
| SEA | Strategic Environmental Assessment - study of the impacts of a proposed plan, programme, policy or legislative action on the environment and sustainability under the Environmental Assessment of Plans and Programmes Regulations 2004 |
| SEC | Size exclusion chromatography |
| Section 35 direction s.35 | A direction by the relevant Secretary of State to confirm that a project is to be regarded as a 'Nationally Significant Infrastructure Project' (NSIP) where that project falls below the thresholds for automatically qualifying as a NSIP. |
| Selected Option | How Option B4 will be referred to following the Gate 2 submission |
| Selected Option Evolution Plan | A plan to be submitted by SW at Gate 2 of the Gated Process, detailing how the Selected Option is expected to evolve to meet the increasing future needs of water customers in SW's region as set out in the Future Needs Assessment. |
| SEMD | Security & Emergency Measures Direction |
| SIA | Stantec Insight Analytics - the 'SIA' routes are the ones produced by SIAs tool |
| SINC or SNCI | Site of Importance for Nature Conservation (SINC) or Site of Nature Conservation (SNCI) Sites that have substantive local nature conservation value. |
| SLD | Single Line Diagram |
| SLM | Southampton Link Main |
| SLP | Southampton to London |



| SIT Senior Leadership Team SMA Scheduled Monument SMAT largets Indirect costs calculated from Southern Water's percentage uplifts SMEs Subject Matter Experts SOC Strategic Outline Case (DPC) Solution Solution SOM Site Operating Manual SOP Standard Operating Procedure Sol Special Protection Area - areas classified in accordance with European Council Directive 2009/147/EC on the conservation of wild birds, known as the Birds Directive, SPAs protect rare and vulnerable birds (as listed on Annex 1 of the Birds Directive), and regulary Courting migratory species. SQ Special Protection Area - areas classified in accordance with European Council Directive 2009/147/EC on the conservation of wild birds, known as the Birds Directive. SPAs protect rare and vulnerable birds (as listed on Annex 1 of the Birds Directive), and regulary courting migratory species. SQ Special Protection Area - areas classified in accordance with European Council Directive 2009/147/EC on the conservation of wild birds, known as the Birds Directive. SPAs protect rare and vulnerable birds (as listed on Annex 1 of the Birds Directive), and regulary courting migratory species. SQ Stategic Regional Water Resource Solution SSEN Stategic Regional Water Resource Solution SSEN Stategic Regional Water Resource Solution SSEN Stategic Regional Mater Resource Solution Sate to estategic distate attra physicological Solutions Paraner Syste< | Term or acronym | Definition |
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| SWROSea Water Reverse OsmosisSWWSouth West WaterT100Target 100 InitiativeTABTechnical Application BulletinTBMTunnel Boring MachineTCPATown and Country Planning Act 1990 | SVOC | Semi-Volatile Organic Carbon |
| SWWSouth West WaterT100Target 100 InitiativeTABTechnical Application BulletinTBMTunnel Boring MachineTCPATown and Country Planning Act 1990 | SW | Southern Water |
| T100Target 100 InitiativeTABTechnical Application BulletinTBMTunnel Boring MachineTCPATown and Country Planning Act 1990 | SWRO | Sea Water Reverse Osmosis |
| TABTechnical Application BulletinTBMTunnel Boring MachineTCPATown and Country Planning Act 1990 | SWW | South West Water |
| TBM Tunnel Boring Machine TCPA Town and Country Planning Act 1990 | T100 | Target 100 Initiative |
| TCPA Town and Country Planning Act 1990 | ТАВ | Technical Application Bulletin |
| | ТВМ | Tunnel Boring Machine |
| TDS Total Dissolved Solids | ТСРА | Town and Country Planning Act 1990 |
| | TDS | Total Dissolved Solids |



| Term or | Definition |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| acronym The Office of Gas and Electricity Markets (OFGEM) | Regulator for the electricity and downstream natural gas markets in Great Britain |
| Third-Party Pass-Through Costs | Costs undertaken by others outside of Southern Water |
| ТНМ | Trihalomethanes |
| TKN | Total Kjeldahl nitrogen |
| TN | Total Nitrogen |
| тос | Total Organic Carbon |
| TOTEX | Total Expenditure (Combination of CAPEX and OPEX) |
| ТРН | Total Petroleum Hydrocarbons |
| Triad | The three half hour settlement periods of highest demand on the GB electricity demand system, between Nov and Feb each year. |
| TRS | Tender Revenue Stream |
| TS2T | Thames to Southern Transfer |
| TSS | Total Suspended Solids |
| TTRO | Temporary Traffic Regulation Order |
| TUB | Drought restriction imposed by water companies on customers. Restrictions include not using water supply for leisure pursuits such as watering a 'garden' using a hosepipe, filling a pool such as watering a 'garden' using a hosepipe, filling a pool |
| TWAO | Transport and Works Act Orders - an order made under the Transport and Works Act 1992 is the usual way of authorising a new railway or tramway scheme in England or Wales. TWA orders may also relate to the construction or operation of inland waterways and certain types of works (e.g. bridges, piers, barrages and tunnels) that interfere with rights of navigation in waters up to the limits of the territorial sea. |
| UCR | Utilities Contract Regulations |
| UF | Ultrafiltration - a pressure-driven barrier to suspended solids, bacteria, some viruses, endotoxins and other pathogens to produce water with very high purity and low silt density. Ultrafiltration is a variety of membrane filtration in which hydrostatic pressure forces a liquid against a semi permeable membrane. |
| UK | United Kingdom |
| UKAS | UK Accreditation Service |
| UKWIR | UK Water Industry Research |
| Uncertainty | Allowance for specific unit costs to fluctuate, not covered in the Risk Register or Optimism Bias |
| Unconstrained List | List of potential options to be considered for initial screening. Preceding step to the Long List |
| UPC | User Programmable Controls |
| UPS | Uninterruptable Power Supply |
| UPT | Under Pressure Tapping |
| USEPA | United Stated Environment Protection Agency |
| UV | Ultraviolet |
| UVAOP | Ultraviolet with Advanced Oxidation Process |





| Term or acronym | Definition |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UVT | UV transmittance |
| UXO | Unexploded Ordinance |
| VfM | Value for Money |
| VOC | Volatile organic compound |
| VOWD | Value of Work Done |
| VPN | Virtual Private Network |
| WAA | Water Authorities Association |
| WAAC | Weight Average Cost of Capital |
| WAACS | Work and Asset Control System (WAG project) |
| WACC | Weighted Average Cost of Capital |
| WAFU | Water available for Use - combined total of deployable output; future changes to deployable output from sustainability changes, climate change etc.; transfers and any future inputs from a third parties; short term losses of supply and outage; and operational use or loss of water |
| WAG | Way Ahead Group |
| WALLRUS | Hydraulics Research Computer Software system |
| WAN | Wide Area Network |
| WAP | Wireless Application Protocol |
| WaSC | Water and Sewerage Company |
| WASSP | Hydraulic Research Computer Software |
| WBS | Water Booster Station |
| WBS Work Breakdown Structure | Work Breakdown Structure |
| WCSN | West Country Sources (North) |
| WE&RF | Water Environment and Reuse Foundation |
| WERF | Water Industry Research Foundation |
| Western Area | Supply area comprising the Hampshire Andover, Hampshire Kingsclere, Hampshire Winchester, Hampshire Rural, Hampshire Southampton East, Hampshire Southampton West and Isle of Wight Water Resource Zones |
| WFD | Water Framework Directive - a framework for the protection of inland surface waters, estuaries, coastal waters and groundwater. |
| WFDA | Water Framework Directive Assessment |
| WfLH | Water for Life Hampshire |
| WFMC | Workflow Management Coalition |
| WHO | World Health Organisation |
| WIA | Water Industry Act |
| WINEP | Water Industry National Environment Programme |
| WIPS | Work Improvement Scheme |
| WIS | Water in Supply or Water Information System |



| Term or acronym | Definition |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WLANS | Wireless Local Area Networks |
| WLC | Whole Life Cost |
| WLL | Wireless Local Loop |
| WoC | Water Only Company |
| WOM | Works Operation and Maintenance Manuals |
| WORM | Write Once, Read Many |
| WPC | Water Production Centre |
| WPS | Water (or Wastewater) Pumping Station |
| WQM | Water Quality Monitoring System |
| WQO | Water Quality Objective |
| WQRA | Water Quality Risk Assessment |
| WQSD | Water Quality Shutdown |
| WRA | Waste Regulation Authority |
| WRC | Water Research Centre |
| WRc | Found in Level 3 Desalination section 2.2.3 |
| WRc | Found in Annex 1 section 2.2.3 |
| WRIS | Water Resource Information System |
| WRMP | Water Resource Management Plan |
| WRMP, WRMP19, WRMP24 | Water Resource Management Plan - statutory plan setting out how water companies will supply healthy, reliable drinking water to homes and businesses for at least the next 25 years. These plans are published at least every five years. The plan published in 2019 is WRMP19 and the next update will be WRMP24 which is intended to be published in 2023. |
| WRP | Water Recycling Plant - a site whereby wastewater effluent is purified into water that can be reused as a raw water for providing drinking water. |
| WRPG | Water Resources Planning Guideline/Guidance? |
| WRSE | Water Resources South East, the regional body relevant for Southern Water's area of operation Zone |
| WRZ | Water Resource Zone |
| WSA | Water Services Association |
| WSI | Written Scheme of Investigation (in relation to EIA / HRA) |
| WSP | Water Safety Plan |
| WSP301 | WSP Risk Assessment & Monitoring Methodology |
| WSPS | Water Supply Pumping Station |
| WSR | Water Service Reservoir |
| WST | Weather Station |
| WSW | Water Supply Works - A site whereby raw water is taken from the environment, treated and discharged into the distribution network supplying homes, businesses and industry. |
| WTW (Also expanded as Wastewater | Waste Treatment Works - A site whereby wastewater and sewerage is treated and discharged back into the environment. |



Strategic Solution Interim Update Submission Summary

| Term or acronym | Definition |
|---------------------|-------------------------------|
| Treatment Works) | |
| WWC | Waste Water Catchment |
| WWSS | Waste Water Scheduling System |

