



Water for life and livelihoods

River Basin Management Plan Thames River Basin District

Annex B: Water body status objectives

Annex B Erratum sheet

The following changes were made to this document in January 2011.

			Changes		
WBID	Catchment	Element	Decision code deleted	Decision code added	
GB106038040120	Upper Lee	Fish	B2a	S2b	
GB106037028180	Roding, Beam & Ingrebourne	Phytobenthos	n/a	S2d	
GB106038033360	Upper Lee	Fish	n/a	S2b	
GB106038033460	Upper Lee	Fish	n/a	S2a	
GB106038040100	Upper Lee	Invertebrates	n/a	S2b	
GB106038033270	Upper Lee	Fish	HR2a	HR4a	
GB106038033270	Upper Lee	Hydrology	HR2a	HR4a	
GB106038033460	Upper Lee	Fish	HR2a	HR4a	
GB106038033460	Upper Lee	Hydrology	HR2a	HR4a	

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B.1 Introduction

This annex sets out the environmental objectives for each of the 617 water bodies in the Thames river basin district. This information is presented in tables; one table for each water body. The annex is organised so that the tables are grouped by catchments. Groundwater, estuary and coastal water bodies and canals, surface water transfers and Sites of Special Scientific Interest (SSSI) ditches are grouped separately at a river basin district level.

In this annex we explain the reasoning behind the status objectives for each water body. You can find further information on how we considered and assessed the actions to meet the objectives in Annex E.

B.2 The objectives of the Water Framework Directive

The Water Framework Directive (WFD) sets a number of different objectives. In summary the environmental objectives for surface waters are:

- Prevent deterioration in status for water bodies
- Aim to achieve good ecological and good surface water chemical status in water bodies¹ by 2015
- For water bodies that are designated as artificial or heavily modified, aim to achieve good ecological potential by 2015
- Comply with objectives and standards for protected areas where relevant
- Reduce pollution from priority substances and cease discharges, emissions and losses of priority hazardous substances.

In summary the environmental objectives for groundwater are:

- Prevent deterioration in the status of groundwater bodies
- Aim to achieve good quantitative and good groundwater chemical status² by 2015 in all those bodies currently at poor status
- Implement actions to reverse any significant and sustained upward trends in pollutant concentrations in groundwater
- Comply with the objectives and standards for protected areas where relevant
- Prevent or limit the input of pollutants into groundwater.

Good status

The Directive sets a target of aiming to achieve at least 'good status' in all waters. For surface waters there are two separate classifications for water bodies; ecological and chemical. For a surface water body to be in overall 'good' status both ecological and chemical status must be at least 'good'. Ecological status is recorded on a scale high, good, moderate, poor and bad; chemical status is recorded as good or fail. If a water body is at less than good ecological status we also report how certain we are that the water body does not meet good status. For groundwater, there are also two separate classifications for water bodies; quantitative and chemical. For a groundwater water body to be in overall 'good' status, both quantitative and chemical status must be 'good'. Groundwater status is recorded as good or poor.

¹ Also known as 'good surface water status': Article 2.17.

² Also known as 'good groundwater status': Article 2.20.

Status is measured through a series of specific standards and targets that have been developed by the UK administrations, supported by the Water Framework Directive UK Technical Advisory Group (UKTAG; www.wfduk.org). You can find more information about how we monitored and classified water bodies in Annex A.

Artificial or heavily modified water bodies

Whilst good ecological status is defined as a slight variation from undisturbed natural conditions in natural water bodies, artificial and heavily modified water bodies are unable to achieve natural conditions. Instead, artificial and heavily modified water bodies have a target to achieve good ecological potential, which recognises their important uses, whilst making sure ecology is protected as far as possible. Ecological potential is also measured on the scale high, good, moderate, poor and bad. The chemical status of these water bodies is measured in the same way as for natural water bodies.

Protected Areas

The Directive specifies that areas requiring special protection under other EC Directives and waters used for the abstraction of drinking water are identified as protected areas. These areas have their own objectives and standards.

Article 4 of the Water Framework Directive requires Member States to achieve compliance with any standards and objectives set for each protected area by 22 December 2015, unless otherwise specified in the Community legislation under which the protected area was established. Where a protected area also has a surface water or groundwater objective the most stringent objective applies.

The objectives reported in this annex (B) are those related to WFD water body status only. However, where a protected area coincides with a water body, this is indicated in the water body tables in this annex. The presence of a Site of Special Scientific Interest (SSSI), which is not also designated as a protected area (under the Birds Directive or Habitats Directive), is indicated in the water body tables.

It is not possible to link the water body status objectives in this annex with the protected area objectives in Annex D since the two sets of objectives are not always directly comparable. In addition, in some cases the size and scale of water bodies under the WFD are not the same as waters identified as protected areas.

Some areas may require special protection under more than one EC Directive. In these cases, all of the appropriate objectives and standards must be achieved. More information about protected areas and their objectives and standards are shown in Annex D.

Prevent or limit

The Water Framework Directive and the new Groundwater Directive (2006/118/EC) extend the existing groundwater quality protection regime implemented via the current Groundwater Regulations. New Groundwater Regulations are expected during 2009 to incorporate the changes. Hazardous substances³ must be prevented from entry into groundwater and the entry into groundwater of all other pollutants must be limited to prevent pollution. A wider range of substances and activities are controlled under the new Directives and there are

³ Substances or groups of substances that are toxic, persistent and liable to bioaccumulate, and other substances or groups of substances which give rise to an equivalent level of concern.

fewer exemptions compared with the existing regime. The aim is to make the existing regime both more flexible and risk based but also more effective, in particular, in controlling diffuse pollution. Actions to prevent or limit the input into groundwater of pollutants are a high priority and can be viewed as a principal means of achieving all of the other groundwater quality objectives.

Implement measures to reverse significant and sustained upward trends

Actions to reverse any significant and sustained upward trends in pollutant concentrations in groundwater must be implemented in the first river basin management planning cycle, or in later cycles as soon as a trend has been identified. It is not possible to use a less stringent objective or extended deadline for this requirement.

Prevent deterioration in status and exceptions

Other than in very exceptional circumstances, the objective to prevent deterioration in status of a water body must always be met, for example, when the deterioration is caused by physical modifications. These new activities may change the physical characteristics of a surface water body, which may be the case in building new flood defences or the water level in a groundwater body, where a new public supply borehole is put into use. Even in these cases it is necessary to comply with a number of conditions before this derogation can be relied upon.

Water bodies where deterioration of status has been permitted under the terms of WFD Article 4(7)

One of the objectives of the Water Framework Directive is to ensure the status of rivers, lakes, estuaries, coastal waters and groundwater is protected from deterioration. This objective applies to all water bodies no matter what their status. However, in specific circumstances, the Directive does provide for exemptions or reasons why this objective should not be applied. Although protecting the water environment is a priority, some new modifications may provide important benefits to human health, human safety and/or sustainable development.

Such benefits can include:

- public water supply;
- flood defence/alleviation;
- hydropower generation;
- navigation.

It is sometimes not possible to undertake such activities without causing deterioration of status to the water body, or preventing the water body from reaching its environmental objectives. The benefits such developments can bring need to be balanced against the social and economic benefits gained by maintaining the status of the water body.

No developments occurring between 1st December 2006 and 31st March 2009 were identified as likely to cause deterioration in the ecological status or potential of water bodies within the Thames RBD.

B.3 Catchments in the Thames River Basin District

You can use the sections below to find information on the management catchments within the Thames river basin district, these are river catchments, groundwater, estuaries, coastal catchments, canals, surface water transfers and Sites of Special Scientific Interest (SSSI) ditches. The locations of the river management catchments are shown in Figure B.3.1.

- B.5 Cherwell catchment
- B.6 Colne catchment
- B.7 Cotswolds catchment
- B.8 Darent and Cray catchments
- B.9 Kennet and Pang catchments
- B.10 Loddon catchment
- B.11 London catchment
- B.12 Medway catchment
- B.13 Mole catchment
- B.14 North Kent
- B.15 Roding, Beam & Ingrebourne catchments
- B.16 South West Essex catchment
- B.17 Thame catchment
- B.18 Thames (Maidenhead to Sunbury) catchment
- B.19 Upper Lee catchment
- B.20 Vale of White Horse catchment
- B.21 Wey catchment
- B.22 Groundwater
- B.23 Estuaries and Coastal Waters
- B.24 Canals, surface water transfers and SSSI ditches

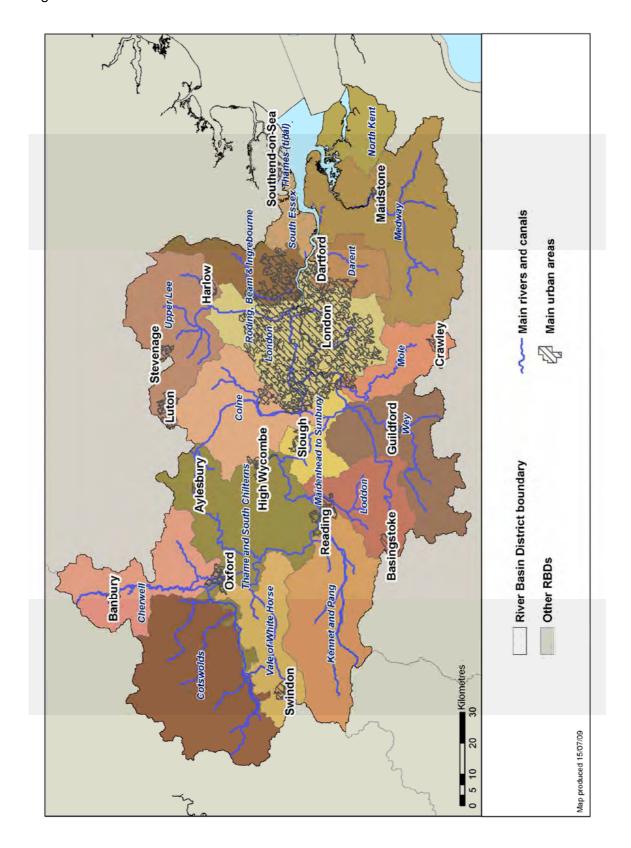
Each river catchment section contains:

- a map showing the river and lake water bodies within the catchment;
- a table summarising status objectives across the catchment;
- tables, one per water body, detailing current status and objectives.

The groundwater, estuaries and coastal waters and canals, surface water transfer and SSSI ditches sections each contain:

- a map showing the relevant water bodies within the river basin district;
- tables, one per water body, detailing current status and objectives.

Figure B.3.1 Thames river basin district and river catchment divisions



The status objectives, by water body type, for the Thames river basin district are summarised in Figure B.3.2 below.

Figure B.3.2 Status objectives for water bodies in the Thames river basin district

	Proposed objective	d status/pote	ential		
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Overall					
Rivers, Canals, SWTs	96	108	108	483	375
Lakes and SSSI Ditches	36	37	37	76	39
Coastal	0	0	0	1	1
Estuaries	0	0	0	11	11
Groundwater	8	8	9	46	38
Natural water bodies	S				
Rivers, Canals, SWT's	61	73	73	304	231
Lakes and SSSI Ditches	3	3	3	7	4
Coastal	0	0	0	0	0
Estuaries	0	0	0	1	1
Groundwater	8	8	9	46	38
Artificial/Heavily mo	dified water	bodies			
HMWB	13	13	13	169	156
AWB	55	56	56	90	34

You can look at the information in this annex in another way through the 'What's in your backyard?' (WIYBY) feature on our website. This allows you to search by place name or postcode to get the details of an individual water body. Link through www.environment-agency.gov.uk/WIYBY. This will be available in early 2010 following publication of this plan.

B.4 Water body tables explained

Figures B.4.1. to B.4.4 below (and the supporting 'explanatory notes' which follow) provide explanations of the information included in the water body tables.

Figure B 4.1 Surface water body tables explained - part 1

Water body ID and Name: The water Water body category and body ID is the unique identification code Map code: The water body for each water body in England and category (river, lake, estuary Wales. The local name of the water body or coastal water) is identified Surveillance site: If the is given if available. here. The map code is the water body is a Clicking on the ID will link to the water number shown on the surveillance monitoring body in the WIYBY feature on the catchment map in this annex. site, it is noted here. We Environment Agency's website (please Please note that this code is monitor surveillance sites note that this link may only work for a not a unique identifier for a for many elements limited period of time, dependent on future water body, since the 'Map irrespective of the changes to the website) code' may well be repeated in pressures acting on the other catchments water body. National Grid Reference: provided for surface water bodies only **Status** objective overall: The overall Waterbody Category and Map Code. Surveillance site: status Waterbody ID and Name: Current overall status: The overall classification objective for National Grid Reference: status for the water body. the water Current Overall Status body. Status Objective (Overall): (For Protected Area Objectives see Annex D) Status Objective(s): Justification if overall objective i For Protected Area Objectives see Annex D: not good status by 2015: **Status** Only appears when the water body has been Protected Area Designation: objectives: The identified as being (or containing, or part of) a ecological status protected area. for the water SSSI (Non-N2K) related: body, or for **Hydromorphological Designation:** heavily modified Justification if overall Reason for Designation: or artificial water objective is not at good status bodies, the by 2015: The reason why an Downstream Waterbody ID: ecological alternative status objective has potential. been set. More information on The chemical the criteria for justification is status of the found in Annex E. water body. Protected area designation: If the SSSI (Non-N2K related): Notes water body has been identified as a whether a water body includes a protected area this gives the designation Site of Special Scientific Interest and the directive or directives under (SSSI) which is not a Natura 2000 which it has been defined (including Protected Area. designation as Drinking Water Protected Areas under the WFD). Downstream water body ID: The Hydromorphological Designation & Reason for unique water body ID for the next **designation:** Identifies if the water body has been water body downstream (only designated as heavily modified or artificial and the applicable for rivers and transitional reason for this designation (see Note A) water bodies).

Figure B 4.2. Surface water body tables explained – part 2

Ecological status or potential: Current classification status is shown. Ecological classification comprises:

- The condition of biological elements, for example fish
- · Concentrations of supporting physico-chemical elements, for example ammonia levels
- Concentrations of specific pollutants, for example copper.
- Supporting conditions of morphology and hydrology
- And for high status, largely undisturbed hydromorphology

Ecological status is recorded on the scale of high, good, moderate, poor or bad. For water bodies that are heavily modified or artificial, the results of ecological potential classification may be determined by assessing the level of mitigation actions required to achieve good potential and that do not have a significant impact on the specified uses. For water bodies for which we do not have monitoring data, the classification recorded here is based on modelling or estimations. Further information on classification see Annex A.

Current status (and certainty less than good): This is the current status classification, with level of certainty (of **Biological elements:** being less than good). See Note B for explanation of A list of the biological Ecological Status / Ecological Potential certainty. Level of certainty is not supplied for Artificial or Current status (and certainty elements of status that status is less than good) Heavily Modified water bodies (AWB/HMWB). classification for which monitoring or biological elements modelling data are Justification for not achieving current status (and certainty less than good) good status by 2015 available. Supporting elements: A list of the physicosupporting elements chemical elements of Supporting predicted status by 2015 Justification for not achie current status (and status classification for certainty less than good) good status by 2015 conditions: A list of which monitoring or the supporting modelling data are morphological supporting conditions available. conditions and Justification for not achieve current status predicted status by 2015 hydrological good status by 2015 conditions (quantity & **Ecological potential** dynamics of flow) for Ecological Potential assessment assessment: Current which monitoring or current potential predicted potential by 2015 Justification for not achiev ecological potential for modelling data are the AWB/HMWB is available. These given, with a prediction mitigation measures that have defined ecological potential elements show as of when the water 'support good', 'high' body will meet good or 'not support good' ecological potential. only. More information in Note C Chemical Status Current status (an certainty that status is less Mitigation measures: A list of the mitigation chemical elements current status (and certainty less than good) actions, stating which predicted status by 2015 Justification for no good status by 2015

actions, stating which are in place and adequate and which were not in place resulting in moderate ecological potential or worse' being assigned. See Note C for more information.

Chemical elements: A list of the chemical elements of status classification for which monitoring or modelling data are available.

Chemical status: The current classification status for the water body against the environmental standards for chemicals that are priority substances and priority hazardous substances. Chemical status is recorded as good or fail - See Note E.

Predicted status by 2015: The predicted status for each of the elements or conditions listed by 2015

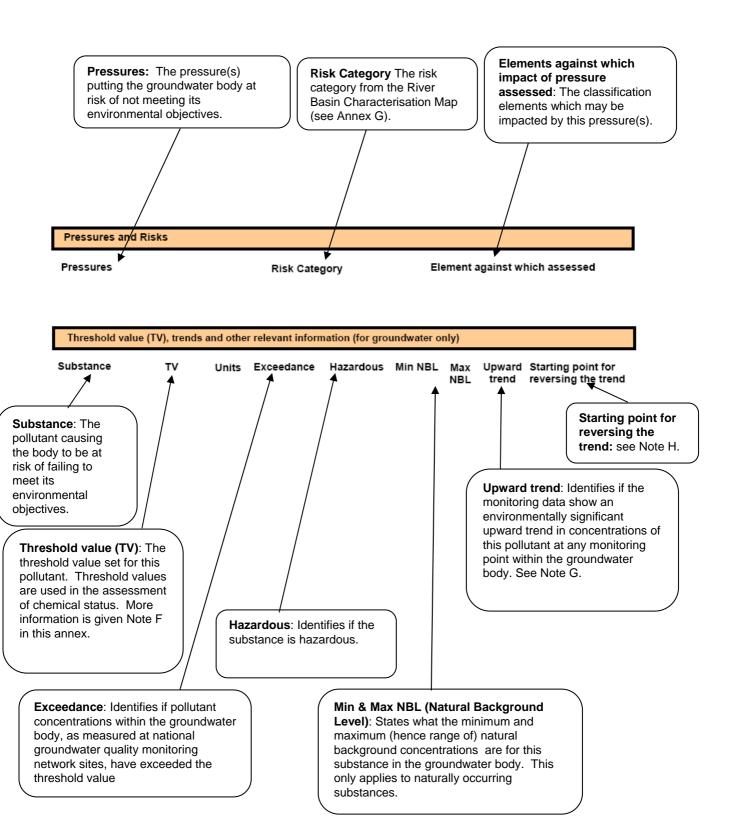
Justification for not achieving good status by 2015: The reason for an alternative status objective if the default status objective has not been used. This is shown with the relevant decision tree codes(s) in brackets. See Note D for more information on these codes.

Figure B. 4.3 Groundwater body tables explained part 1

Descriptions are the same as surface water bodies except where stated.

Status objectives: Status objectives Current overall status: The for 1) the quantitative elements current overall classification relevant to the water body and 2) the status for the water body chemical elements relevant to the using all quantitative and Status objective water body. Note that this is for status chemical elements. For (overall): The only. There are separate objectives further information on overall status for for reversing trends and for preventing classification see Annex A. the water body. or limiting the inputs of pollutants to groundwater. Waterbody Category and Map Code.: Groundwater body has an upward trend in Waterbody ID and Name: pollutant concentration: Identifying Current Overall Status significant and sustained upward trends in Status Objective (Overall) pollutants concentration and putting actions in place to reverse those trends is a separate Status Objective(s): objective for groundwater quality. This box Justification if overall objective is identifies whether the body is subject to such not good status by 2015: a trend or not. **Protected Area Designation:** Groundwater body has an upward Quantitative elements: The trend in pollutant concentrations: results of the tests for each of the four elements that **Quantitative Status** determine groundwater body quantitative status with Current Status (and confidence in associated confidence (high this assessment) or low). Quantitative elements 4 Justification for not achieving Element Current status (and Predicted Status by confidence) 2015 good status by 2015 Chemical Status Current Status (and confidence in this assessment) Chemical elements Predicted Status by Element Current status (and Justification for not achieving good status by 2015 confidence) Quantitative Status: This Chemical status: This is the overall chemical is the overall quantitative status for the water body, considering the status for the water body, results of the five tests that determine Chemical elements: The considering the results of chemical status (General Chemical results of the tests for each of the four tests that Assessment, saline intrusions, impacts on the five elements that determine quantitative wetlands, impacts on surface water, Drinking determine groundwater body status (water balance, Water Protected Area). For more information chemical status with saline intrusions, impacts on confidence see Note B associated confidence (high on wetlands, impacts on or low). surface water). Status may be classified as either good or poor. For more information on confidence see Note B

Figure B. 4.4 Groundwater tables explained - part 2



Explanatory notes

Note A: Hydromorphological Designation & Reason for designation

These fields in the water body tables identify whether the water body has been designated as being heavily modified or artificial for one or more of the following reasons (see also Annex I): Drinking Water; Flood Protection; Irrigation; Land Drainage; Navigation; Other; Power Generation; Recreation; Structure; Urbanisation; Wider Environment; Water Regulation (impoundment release); Water Regulation (strategic transfer); Water Storage - non-specific; Coastal Protection; Shell Fisheries; Fin Fisheries; Dredge Disposal.

Note B: Certainty and confidence

Surface waters

Our assessments of surface water body status are accompanied by a description of how certain we can be that the water body is below good status⁴. These assessments are reported in this annex for each quality element in each water body, and for the overall water body status.

The Environment Agency has used three expressions to describe how certain we are that a water body does not achieve the objective of good status. Although the terms confidence and certainty can be interchangeable, the Environment Agency has taken the decision to use an expression of certainty to describe all surface water classifications.

How certain we are that the water body is less than good status	Threshold
Very certain	≥95% certain that the water
	body does not meet the
	objective of good status
Quite certain	≥75to ≤95% certain that the
	water body does not meet the
	objective of good status
Uncertain	>50% to <75% certain that the
	water body does not meet the
	objective of good status

This description of certainty takes account of the precision of our results. Precision is influenced by natural variation in the data over time, as well as errors in the assessment process. The Environment Agency can assess how the probability of misclassification changes in relation to the amount of sampling for each biological element. This allows us to estimate the most likely levels of certainty we can achieve with a given sampling effort. For example, a diatom sample from spring and autumn will allow no more than a 70% certainty of being at a particular status, but often gives high certainty (>95%) of being somewhere below good status.

⁴ This does not apply to Artificial or Heavily Modified water bodies because the designation and classification processes included expert opinions provided by Environment Agency staff and external stakeholders. The information used was therefore partly qualitative and so it was not appropriate to assign an assessment of certainty.

In some situations our expression of certainty is based on weight of evidence or expert opinion. There are three examples of this:

- The way different water bodies respond to nutrient enrichment can be complicated. Sometimes we find that the water body does not meet the required standard for phosphorus but the biological community shows no sign of damage. In such situations it would be misleading to say we are very certain that the water body is at less than good status. In other situations, the water body does not meet the required standard for phosphorus, and the biological community the diatoms and macrophytes also show signs of damage. The result for each element on its own may be uncertain. But the fact that all elements suggest the same thing weight of evidence that there is an impact means that we become more certain that there is a problem. So we modify the overall certainty according to the statistical certainty of each test. Where this has happened it is indicated by "WoE" (weight of evidence) against the certainty rating.
- As our monitoring programme for estuarine and coastal water bodies is new, certainty in our draft classifications for these water bodies is partly based on the amount of data available for each of the classification tools. We say we are uncertain where our data sets are limited. Our marine monitoring programme will continue to provide more data, so the certainty of our assessments in estuarine and coastal waters should steadily improve over time.
- We don't yet have assessments for all of our water bodies. Where we lack data we have used expert judgements to provide an initial assessment of the water body (see Annex A for more detail) and this is stated in the water body tables as 'Note: Current Status and Status Objectives for this water body are based on Expert Judgement'. Where expert judgement has been used to provide a classification we can only ever be uncertain in our assessment.

Where a water body is Good or High Ecological Status and biology is not classified (i.e. no biology data was used) then this is indicated with 'no biology data'

Groundwater status

Groundwater classification comprises four quantitative and five chemical status tests. Each of the status test results is reported as a face value class accompanied by an assessment of our confidence in the result.

For groundwater, confidence is reported as a qualitative statement, and is used as an indicator for prioritising action. All poor status classifications for groundwater, irrespective of confidence, will require some form of action. This is because the classification criteria for both chemical and quantitative status comprise a rigorous weight of evidence approach. Further details of how confidence is determined are given in Annex A.

The decisions on which level of confidence to assign to each of the tests undertaken to determine status are reached by using a combination of statistical and weight of evidence criteria. The principles for this are outlined in the UK TAG paper 'Reporting Confidence in Groundwater Status Assessments' (available at http://www.wfduk.org/tag_quidance/Article_08/Groundwater confidence).

As a principle guiding the assessment of confidence in each of the individual status tests, the key criteria are a) the strength of the overall "weight of evidence" supporting the status assessment and b) a combined assessment of the monitoring data in terms of the magnitude of overall departure from the poor/good status boundary and the variability of the data.

Confidence in chemical status and quantitative status will be determined and reported separately. For poor status groundwater bodies, the highest level of confidence from each of

the individual tests should be reported. For good status groundwater bodies, the lowest level of confidence from each of the individual tests should be reported.

Note C: Explanation of hydromorphological measures

The assessment of ecological potential looks at mitigation measures which relate to hydromorphological pressures and ecological impacts that are present in Artificial and Heavily Modified water bodies (AWB/HMWBs).

Each AWB/HMWB is designated for at least one use. Please see 'reason for designation' in the water body objective tables. For each of these water body uses we have defined a number of associated mitigation measures that are required to reduce the hydromorphological impacts of the use. This is in line with the UK TAG guidance which can be found at: www.wfduk.org/st workshops/LibraryPublicDocs/qep https://www.wfduk.org/st workshops/LibraryPublicDocs/qep https://wwww.wfduk.org/st worksho

For a water body to reach GEP all the associated mitigation measures need to be in place. For each AWB/HMWB we reviewed, mitigation measures fit into one of these categories:

- in place for the water body in question and operating adequately OR
- not applicable to that particular water body some measures have been screened
 out during the assessment process because they could not be put in place without
 significantly adversely affecting the use of the water body or the wider environment,
 or they are not practicable given the physical characteristics of the water body. OR
- **are required** to reduce the hydromorphological impacts on ecology and to achieve good ecological potential or better.

In the water body objective tables in Annex B mitigation measures relating to ecological potential are listed for each AWB/HMWB as follows:

- a) mitigation measures that are in place and adequate are identified as "in place" and
- b) mitigation measures that are required to reach Good Ecological Potential or better are identified as "not in place".

Mitigation measures that are not applicable are not included in these tables.

In AWB/HMWBs currently classified as moderate ecological potential or worse for hydromorphological pressures there is at least one mitigation measure that is not currently in place or has not been screened out on the basis of practicability or impact on use or the wider environment.

It should be noted that mitigation measures identified as "not in place" is a comprehensive list of actions that could be adopted, rather than the final proposed actions. Further appraisal is required to relate these general measures to specific actions within a water body. Specific actions that will be occurring appear in Annex C.

We have appraised these mitigation measures, including:

- mapping these potential measures to existing Environment Agency plans (such as medium term flood risk management plans) and local schemes (see Annex E for explanation of mapping exercise)
- working with co-deliverers to identify options for implementing these measures, where it is their management and/or structures that contribute to the hydromorphological pressure/s
- assigned measures to a particular sector, where this is possible, and aligned where possible with any sectoral plans and processes

• taken account of comments received as part of the consultation process on the draft river basin management plans.

Some measures alone or in combination may only achieve a slight ecological improvement. In these cases the measures only contribute to maximum ecological potential. Where we are confident of this, the measure/s will not be required to achieve good ecological potential. Currently we are not able to predict slight ecological benefit satisfactorily, but as our understanding increases we will be able to assess the mitigation measures fully.

For AWB/HMWBs designated for water supply use and currently not achieving GEP, a programme of investigation in partnership with water companies is planned. This will enable us to identify appropriate and cost effective measures for implementation in the second and third River Basin Management Plans.

Note D: Decision trees codes

Decision tree codes have been used to indicate how we have made decisions about alternative objectives. Each pressure has a unique decision tree with a set of decision tree codes which are shown in the water body tables, for example S1a is from Sediments tree, P1a from the Phosphorus tree. These decision trees show the main steps taken in appraising the potential measures to address a pressure and set out which of those decisions can lead to the setting of an alternative objective. Further information on decision tree codes can be found in Annex E.

Note E: Chemical status reporting

An assessment of chemical status is required in water bodies where priority substances and other specific pollutants are known to be discharged in significant quantities. If a water body is labelled as "Does not require assessment" it is because these pollutants are not discharged into this water body in significant quantities.

The Water Framework Directive requires us to classify chemical status as either Good or Fail (i.e. failing to achieve good).

The Directive also requires us to produce an overall status assessment (and objective) for water bodies, inferring that we need to combine ecology and chemistry into one overall assessment. To do this, we convert our chemical status assessments using the following translation: Good = High, Fail = Moderate.

The translation of Good = High was agreed by UKTAG on the basis that it would be unfair to downgrade an otherwise pristine water body (one that reaches high for all other elements) simply because the chemical status can only ever achieve a maximum of Good.

Therefore, in our Annex B tables we report:

- the status of individual chemical elements as High or Moderate (so the translation described above can occur)
- the current chemical status as Good or Fail (as required by the Directive)

Note F: Summary of how exceedances of groundwater quality standards/threshold values at monitoring network sites have been used in the assessment of chemical status of groundwater bodies

The Groundwater Daughter Directive (GWDD) states that for assessing chemical status, we should use prescribed groundwater quality standards for nitrates and pesticides, and locally derived threshold values for other pollutants that have been identified as contributing to the characterisation of the groundwater bodies as being at risk of failing to meet one or more of its environmental objectives.

Threshold values are groundwater quality standards approved by Defra/Welsh Assembly Government (WAG) for the purpose of assessing groundwater chemical status. They can be set nationally, or on a local groundwater body scale. Threshold values are triggers that if exceeded at groundwater monitoring points require us to investigate whether the conditions for good status have been met. They do not represent the boundary between good and poor status. The EU (GWDD) groundwater quality standards prescribed for nitrate and pesticides have also been used in the assessment process in the same way. Note however that threshold values for these pollutants may be established at lower concentrations to ensure that all status objectives are being met. All this follows the requirements of the GWDD. Note that the groundwater monitoring points used for WFD classification are those included in the Environment Agency's national groundwater quality monitoring programme.

If standards and/or threshold values are not exceeded at any of the relevant monitoring points within the groundwater body then, in accordance with the GWDD, the groundwater body is at good status and no further investigation is necessary. The standards and conditions that we apply to environmental permits should reflect the need to meet all WFD objectives, including good chemical status, but these permit conditions are not threshold values.

Threshold values have been derived for each of the tests for good chemical status. Once each of the relevant tests for a groundwater body has been applied the individual tests must then be assessed together, on a one-out all-out basis. The most stringent relevant threshold for each pollutant will be reported for the groundwater body. This indicates that the threshold will apply to least one monitoring point within the groundwater body. Threshold values for a single substance could vary across a groundwater body, particularly for those substances where there is a highly variable natural background concentration. For simplicity, we have avoided this wherever possible, but it is needed in some cases.

The threshold value for each test is appropriate to the receptor being considered in that test, e.g. a groundwater abstraction, an associated surface water body, or a groundwater dependent terrestrial ecosystem. The way in which we have compared monitoring data to the thresholds values during classification varies between the individual classification tests. See the table below.

If a threshold value has been exceeded, we have investigated whether the pollution is of sufficient magnitude to prevent the groundwater body achieving its status objectives under the WFD (i.e. it is not just a localised impact). This has been undertaken, for example, using status assessments for surface ecosystems, assessments of loadings to surface receptors or aggregations of groundwater data.

Only where the concentration of pollutants exceeds the groundwater chemical threshold, and any supporting evidence confirms the presence of an impact that compromises the achievement of WFD status objectives, have we classified the groundwater body as at poor status. Where there was insufficient data to conduct a particular test, then in the absence of

contrary information, the groundwater body has been assigned good status for that test, but with low confidence in this assessment. We will aim to undertake additional monitoring and/or investigation so that the test can be properly conducted at the next round of classification.

Status classification test	Where threshold value applies
Saline or other intrusions (where	Relevant individual monitoring points
poor quality water has been pulled	e.g. those in areas at risk from
into the body as a result of	intrusion
groundwater abstraction)	
Impact on Surface Water Bodies	Relevant individual monitoring points
	e.g. those close to the surface water
	body
Impact on Wetlands (groundwater	Relevant individual monitoring points
dependent terrestrial ecosystems)	e.g. those close to the wetland
Drinking Water Protected Areas	Relevant individual monitoring points
	e.g. those that are abstractions used
	for drinking water
General Chemical Assessment	Aggregated across the body, e.g.
	compared to groundwater body
	average concentration(s).

Note G: Summary of how groundwater body chemical trend assessment was carried out.

The Water Framework Directive and the Groundwater Daughter Directive require us to identify statistically and environmentally significant upward pollutant trends in groundwater bodies. This section describes the procedure we used to carry out this assessment.

- We collated groundwater quality monitoring data using data between 1997 and 2007.
 The data came from both our National Groundwater Quality Monitoring Network and water company monitoring where this was made available.
- 2. We used a simple modelling tool to calculate whether these data showed a statistically significant upward trend. The tool was specifically designed and developed for this purpose, and uses two different statistical tests to assess trends in the data. If a statistically significant trend was detected the tool also predicted the expected pollutant concentration in 2021.
- 3. We then assessed the environmental significance of each of the significant upward trends. This was done by comparing the predicted pollutant concentration in 2021 to the threshold value(s) for the relevant groundwater body chemical classification test. A trend is environmentally significant if the predicted concentration in 2021 is greater than one or more threshold values. Threshold values are explained in Note E.

A map showing which groundwater bodies have statistically and environmentally significant trends can be seen in Annex A.

Note H: Starting point for reversing the trend

This is the pollutant concentration measured in the groundwater body at which we must implement actions to reverse upward trends. The default is 75% of the threshold value, unless we can justify a later starting point (because the rise in concentrations is low and there is less risk to the environment) or an earlier starting point (because the risk to the environment is high).

B.5 Cherwell river catchment

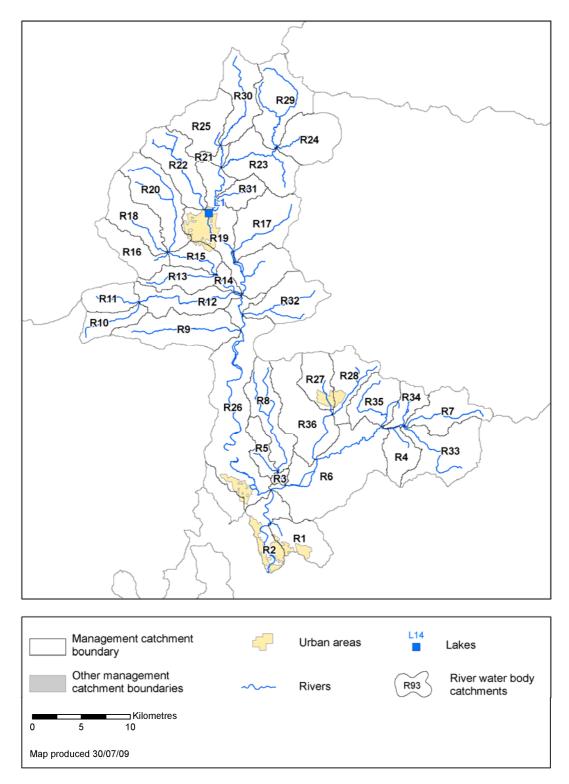
Rivers and Lakes

There are 36 river water bodies (of which 3 are designated as heavily modified) and 1 lake water bodies (designated as artificial) within the Cherwell river catchment.

Figure B.5.1 Status objectives for rivers and lakes in the Cherwell river catchment

	Proposed status/potential objective				
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	11	11	33	22	33
Lakes	0	0	0	0	0
Heavily modified water bodies	0	0	3	3	3
Artificial water bodies	1	1	1	0	1

Figure B.5.2 River and lake water bodies in the Cherwell river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



[©] Environment Agency copyright and / or database right 2009. All rights reserved. This map includes data supplied under licence from: © Crown Copyright and database right 2009. All rights reserved. Ordnance Survey licence number 100026380. Some river features of this map are based on digital spatial data licensed from the Centre for Ecology and Hydrology, © CEH. Licence number 198 version 2

Water body tables for rivers and lakes in the Cherwell catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Catchment: Cherwell RBD: 6

Waterbody Category and Map Code.: River - R1 Surveillance site: No

Waterbody ID and Name: GB106039029780 **Bayswater Brook**

National Grid Reference: SP 52966 10107

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2027 Status Objective (Overall):

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029800

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015

good)

High

High

good status by 2015

Ammonia (Phys-Chem) Dissolved Oxygen High High High pΗ High

Phosphate Moderate (Uncertain)

Moderate

Disproportionately expensive

(P1a)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Cherwell RBD: 6

Waterbody Category and Map Code.: River - R2 Surveillance site: No

Waterbody ID and Name: GB106039029800 Cherwell (Ray to Thames) and Woodeaton Brook

National Grid Reference: SP 52121 10282

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030334

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good

Poor Invertebrates Poor (Very Certain) Technically infeasible (B2p)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High

pН High High

Phosphate

Moderate (Very Certain) Moderate Disproportionately expensive

(P1a)

Temperature High High Arsenic High High Copper High High Iron High High Permethrin High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Uncertain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Tributyltin Compounds	Moderate (Uncertain)	Moderate	Technically infeasible (C2a)
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

RBD: 6 Catchment: Cherwell

River - R3 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Gallos Brook (Bletchingdon Stream to Ray) GB106039030050

National Grid Reference: SP 53432 14708

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030090

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good Supports Good

Quantity and Dynamics of Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Cherwell RBD: 6

Waterbody Category and Map Code.: River - R4 Surveillance site: No

Waterbody ID and Name: GB106039030060 Ludgershall Brook and Muswellhill Brook

National Grid Reference: SP 65247 19460

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030090

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Invertebrates Poor (Very Certain) Poor Technically infeasible (B2p)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Catchment: Cherwell RBD: 6

Waterbody Category and Map Code.: River - R5 Surveillance site: No

Waterbody ID and Name: GB106039030080 Bletchingdon Stream

National Grid Reference: SP 51760 16544

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030050

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Very Certain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Bad (Very Certain)	Bad	Disproportionately expensive (P1b)
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and predicted Status by certainty of less than good)

Current status (and predicted Status by 2015 good status by 2015 good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Cherwell RBD: 6

River - R6 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039030090 Oxon Ray (upstream A41 to Cherwell) including

National Grid Reference: SP 61321 18434

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039029800 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Current status (and Element Predicted Status by Justification for not achieving

certainty of less than

good)

good status by 2015 2015

Fish Poor Poor (Very Certain) Disproportionately expensive

(DO1a, P1a), Technically

infeasible (B2p)

Invertebrates Good Good

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High

Dissolved Oxygen Moderate (Quite Certain)

Moderate

Disproportionately expensive

(DO1a)

pН High High

Phosphate Poor (Very Certain) Poor

Disproportionately expensive

(P1a)

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Flow

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Cherwell RBD: 6

Waterbody Category and Map Code.: River - R7 Surveillance site: No

Waterbody ID and Name: GB106039030100 Ray and tributaries NorthEast of Grendon

Underwood

National Grid Reference: SP 69873 21570

Moderate **Current Overall Status** Status Objective (Overall): Good by 2027

(For Protected Area Objectives see Annex D)

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030060

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and

certainty of less than good)

2015

Predicted Status by

Justification for not achieving

good status by 2015

Invertebrates Moderate (Quite Certain) Moderate Disproportionately expensive

(P1a), Technically infeasible

(B2p)

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) Good Good

Dissolved Oxygen Moderate (Quite Certain)

Moderate

Disproportionately expensive

(DO1a)

pН High High

Poor (Very Certain)

Poor

Disproportionately expensive

(P1a)

Temperature High High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and

certainty of less than good)

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Phosphate

Supports Good

Supports Good

Supports Good

Predicted Status by

Supports Good

Environment Agency, Annex B Thames River Basin District, December 2009

Catchment: Cherwell RBD: 6

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element Current status (and certainty of less than good)

Current status (and predicted Status by certainty of less than good status by 2015 good status by 2015

Lead And Its Compounds High High
Nickel And Its Compounds High High

Catchment: Cherwell RBD: 6

River - R8 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Gallos Brook (Source to Bletchingdon Stream) GB106039030130

National Grid Reference: SP 53150 18493

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Good by 2027 Status Objective (Overall):

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030050

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Invertebrates Moderate Poor (Quite Certain) Technically infeasible (B2a)

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of

Flow

Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty

that status is less than good)

RBD: 6 Catchment: Cherwell

Waterbody Category and Map Code.: River - R9 Surveillance site: No

Waterbody ID and Name: **Deddington Brook (Source to Cherwell)** GB106039037190

National Grid Reference: SP 43845 30223

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037430

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

High High

good status by 2015

Supporting conditions

Invertebrates

Predicted Status by Element **Current status (and** Justification for not achieving

certainty of less than

Supports Good

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty

that status is less than good)

Catchment: Cherwell RBD: 6

Waterbody Category and Map Code.: River - R10 Surveillance site: No

Waterbody ID and Name: GB106039037200 Upper Swere (Source to Wigginton)

National Grid Reference: SP 36107 31069

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037220

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
pН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Certainty of less than 2015 Good status by 2015

Supports Good

good)

Quantity and Dynamics of Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Cherwell

Waterbody Category and Map Code.: River - R11 Surveillance site: No

Waterbody ID and Name: GB106039037210 Hook Norton Brook (Source to Swere)

National Grid Reference: SP 36711 33495

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037220

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Invertebrates High High

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty

that status is less than good)

Waterbody Category and Map Code.: River - R12 Surveillance site: No

Waterbody ID and Name: GB106039037220 Swere (Wigginton to Cherwell)

National Grid Reference: SP 44623 33032

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037430

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Uncertain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Moderate	Disproportionately expensive (B1a)
Invertebrates	High	High	, ,
Phytobenthos	Poor (Very Certain)	Poor	Technically infeasible (B2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Supports Good	Supports Good	
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

Justification for not achieving

Justification for not achieving

good status by 2015

good status by 2015

Waterbody Category and Map Code.: River - R13 Surveillance site: No

Waterbody ID and Name: GB106039037240 Bloxham Brook (Source to Sor Brook)

National Grid Reference: SP 42814 35792

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039037250 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and**

Predicted Status by certainty of less than 2015

good)

High

Invertebrates High

Supporting elements

Ammonia (Phys-Chem)

Predicted Status by Element **Current status (and**

good)

High High

certainty of less than

Dissolved Oxygen High High

pΗ High High

Poor (Very Certain) Poor Disproportionately expensive Phosphate (P1b)

2015

Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Current status (and Predicted Status by Justification for not achieving Element certainty of less than 2015 good status by 2015

Supports Good

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R14 Surveillance site: Yes

Waterbody ID and Name: GB106039037250 Sor Brook (Adderton to Cherwell)

National Grid Reference: SP 47512 34553

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037430

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Good Good

Invertebrates Moderate (Uncertain) Moderate Technically infeasible (B2p)

Macrophytes Poor (Very Certain) Poor Technically infeasible (B2p)

Supporting elements

Ammonia (Phys-Chem)

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

od)

good)

High High

Dissolved Oxygen High High

pH High High

Phosphate Moderate (Very Certain) Moderate Technically infeasible (P2b)

Temperature High High
Copper High High
Zinc High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R15 Surveillance site: No

Waterbody ID and Name: GB106039037260 Sor Brook (Broughton to Adderbury)

National Grid Reference: SP 44465 37376

Current Overall Status Good

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037250

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Fish Good Good High Invertebrates High

Supporting elements

Current status (and Element **Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate Good Good Temperature High High Ammonia (Annex 8) High High

good status by 2015

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Cherwell

Waterbody Category and Map Code.: River - R16 Surveillance site: No

Waterbody ID and Name: Tadmarton Stream (Source to Sor Brook) GB106039037270

National Grid Reference: SP 41100 37651

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037260

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R17 Surveillance site: No

Waterbody ID and Name: GB106039037290 Farthinghoe Stream (Source to Cherwell) and

National Grid Reference: SP 51740 40055

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037310

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good High Invertebrates High

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High Dissolved Oxygen High High High good status by 2015

pН High High

Phosphate Poor (Very Certain) Poor

Disproportionately expensive (P1b)

Temperature High High Arsenic High High Copper High

Iron High Zinc High Ammonia (Annex 8)

High

High High

High High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element Current status (and certainty of less than good)

Current status (and predicted Status by certainty of less than good status by 2015 good status by 2015

Lead And Its Compounds High High
Nickel And Its Compounds High High

Waterbody Category and Map Code.: River - R18 Surveillance site: No

Waterbody ID and Name: GB106039037300 Shutford Stream (Source to Sor Brook)

National Grid Reference: SP 39923 39974

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037260

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment that status is less than good)

Waterbody Category and Map Code.: River - R19 Surveillance site: No

Waterbody ID and Name: GB106039037310 Cherwell (Cropredy to Nell Bridge)

National Grid Reference: SP 46408 39885

Current Overall Potential Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Navigation, Water Storage - non-specific

Downstream Waterbody ID: GB106039037430

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good Moderate (Quite Certain) Invertebrates Good

Phytobenthos Poor (Very Certain) Moderate Disproportionately expensive

(P1b), Technically infeasible

(M3g)

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pΗ High High

Phosphate Moderate (Very Certain) Moderate

Temperature High High Arsenic High High Copper High High Iron High High 7inc High High Ammonia (Annex 8) High High good status by 2015

Disproportionately expensive

(P1b)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Moderate Moderate Mitigation Measures Assessment

Technically infeasible (M3g)

Mitigation Measures that have defined Ecological Potential

Mitigation MeasureStatusOperational and structural changes to locks, sluices, weirs, beach control, etcNot In Place

Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.

Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

River - R20 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039037320 Sor Brook (Source to Broughton)

National Grid Reference: SP 40681 46059

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039037260 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Element **Current status (and**

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

High Invertebrates High

good)

Supporting elements

Element **Current status (and**

certainty of less than

Predicted Status by 2015

Good

High

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) Good Dissolved Oxygen High

pΗ

High

good)

High

Poor (Quite Certain) Phosphate

Poor

Disproportionately expensive

(P1b)

Temperature High High Good Good

Ammonia (Annex 8)

Supporting conditions

Current status (and certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Element

Supports Good

Supports Good

Supports Good Morphology Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R21 Surveillance site: No

Highfurlong Brook (Wormleighton to Cherwell) Waterbody ID and Name: GB106039037330

National Grid Reference: SP 47397 48051

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037310

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Moderate Invertebrates Moderate (Quite Certain) Technically infeasible (B2j, B2p)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than good status by 2015 2015

good)

High Ammonia (Phys-Chem) High Dissolved Oxygen Good Good pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R22 Surveillance site: No

Waterbody ID and Name: GB106039037340 Hanwell Brook

National Grid Reference: SP 43851 45514

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037310

Ecological Status

Current Status (and certainty that status is less than good)

Good

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

Invertebrates Good Good

2015 good status by 2015

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R23 Surveillance site: No

Cherwell (Ashby Brook to Cropredy) Waterbody ID and Name: GB106039037350

National Grid Reference: SP 50165 48203

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037310

Ecological Status

Current Status (and certainty that status is less than good) Moderate

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Fish Good Good Invertebrates High High

Phytobenthos Moderate (Very Certain) Moderate Technically infeasible (B2a)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Cherwell

Waterbody Category and Map Code.: River - R24 Surveillance site: No

Waterbody ID and Name: Ashby Brook (Source to Cherwell) GB106039037360

National Grid Reference: SP 54596 49446

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037350

Ecological Status

Current Status (and certainty

that status is less than good)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

Good

good)

Invertebrates Good Good

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

Supports Good

good)

Supports Good

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty

that status is less than good)

Waterbody Category and Map Code.: River - R25 Surveillance site: No

Waterbody ID and Name: GB106039037370 Clayton and Wormleighton Brook, Source to

National Grid Reference: SP 46631 49566 Highfurlong Brook

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Irrigation, Land Drainage, Water Regulation (impoundment release)

Downstream Waterbody ID: GB106039042660

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R26 Surveillance site: No

Waterbody ID and Name: GB106039037430 Cherwell Nell bridge to Ray confluence

National Grid Reference: SP 48083 23262

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039029800 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving 2015

certainty of less than

good) Good

Good

Good

Good

good status by 2015

Supporting elements

Fish

Invertebrates

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015

good)

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

Phosphate Moderate (Quite Certain) Moderate

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High Disproportionately expensive

(P1b)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Supports Good

Quantity and Dynamics of Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R27 Surveillance site: No

Waterbody ID and Name: GB106039030150 Town Brook at Bicester

National Grid Reference: SP 58009 23161

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Urbanisation

Downstream Waterbody ID: GB106039030140

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen Good Good
pH High High

Phosphate Poor (Uncertain) Poor Disproportionately expensive

(P1a)

Temperature High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3b)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R28 Surveillance site: No

Waterbody ID and Name: GB106039030160 Langford Brook (source to downstream A41)

National Grid Reference: SP 59935 22944

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030140 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Current status (and Element

certainty of less than 2015

Predicted Status by

Justification for not achieving

good status by 2015

Good Good Invertebrates

good)

Supporting elements

Element **Current status (and Predicted Status by**

certainty of less than

good)

2015

High

Justification for not achieving good status by 2015

Ammonia (Phys-Chem) High

Dissolved Oxygen Poor (Uncertain) Good pΗ High High

Good Phosphate Good Temperature High High Copper High High Zinc High High

Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Flow

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R29 Surveillance site: No

Waterbody ID and Name: GB106039042650 Cherwell (Source to Trafford Bridge)

National Grid Reference: SP 54744 54815

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037350

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Very Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

Moderate

certainty of less than

Moderate (Quite Certain)

good)

2015 good status by 2015

Disproportionately expensive (P1b), Technically infeasible

(B2p)

Supporting elements

Invertebrates

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Moderate (Very Certain) Good
Dissolved Oxygen Moderate (Very Certain) Good
pH High High

Phosphate Bad (Very Certain) Bad

Temperature High High
Ammonia (Annex 8) Moderate (Very Certain) Good

(Very Certain) Bad Disproportionately expensive

(P1b)

Supporting conditions

Element Current status (and predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Flow

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R30 Surveillance site: No

Waterbody ID and Name: GB106039042660 Highfurlong Brook (Source to Wormleighton Brook)

National Grid Reference: SP 49006 55549

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037330

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good)

Supports Good

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment that status is less than good)

River - R31 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039037280 Chacombe Brook (Source to Cherwell)

National Grid Reference: SP 47701 44003

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039037310 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Good Good

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Poor

High

High

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Poor (Very Certain) Phosphate

Temperature High Ammonia (Annex 8) High Disproportionately expensive

(P1b)

Supporting conditions

Current status (and Element

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Cherwell

River - R32 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Ockley Brook and Croughton Brook (Source to GB106039037230

National Grid Reference: SP 54410 33269

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037430

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

Invertebrates High High

2015 good status by 2015

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

Supports Good

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R33 Surveillance site: No

Waterbody ID and Name: GB106039030070 Tetchwick Brook, Source to Ray and tribs

National Grid Reference: SP 69666 17677

Bad **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030060

Ecological Status

Current Status (and certainty that status is less than good) Bad (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving good status by 2015 2015

certainty of less than

good)

Bad Bad (Very Certain) Disproportionately expensive

(P1b), Technically infeasible

(B2p)

Supporting elements

Invertebrates

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Good

Ammonia (Phys-Chem) Good

Dissolved Oxygen Moderate (Quite Certain) Moderate

pН High High

Disproportionately expensive (DO1a)

Phosphate Bad (Very Certain) Bad Disproportionately expensive (P1b)

High Temperature High

Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

Supports Good

good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R34 Surveillance site: No

Waterbody ID and Name: GB106039030110 Gubbinshole and Broadmoor ditch to Ray (Oxon)

National Grid Reference: SP 66638 22929

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030090

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Poor Invertebrates Poor (Very Certain) Technically infeasible (B2p,

DO2a)

Supporting elements

Current status (and Predicted Status by Justification for not achieving Element certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Moderate (Uncertain) Moderate Disproportionately expensive

(A1a)

Dissolved Oxygen Poor (Very Certain) Poor Technically infeasible (DO2a)

High High pН

Phosphate Moderate (Very Certain) Moderate Disproportionately expensive

Temperature High High

Moderate (Uncertain) Moderate Ammonia (Annex 8) Disproportionately expensive

(A1a)

(P1a)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Quantity and Dynamics of Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Flow

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R35 Surveillance site: No

Waterbody ID and Name: GB106039030120 Summerstown Ditch and Launton and Cutters

National Grid Reference: SP 61111 22163

Bad **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030090 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Bad (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving good status by 2015 2015

certainty of less than

Bad (Very Certain)

good)

Bad Disproportionately expensive

(P1b), Technically infeasible

Disproportionately expensive

(B2p)

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

Invertebrates

Element Current status (and Predicted Status by Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Poor (Uncertain) Poor Disproportionately expensive

Moderate

(A1a)

(DO1a)

Moderate (Quite Certain)

High pН High

Bad (Quite Certain) Phosphate Bad Disproportionately expensive

Temperature High High

Ammonia (Annex 8) Poor (Uncertain) Poor Disproportionately expensive

(A1a)

(P1b)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

Supports Good

good)

Quantity and Dynamics of

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R36 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039030140 Langford Brook (Bicester to Ray inc Gagle Brook)

National Grid Reference: SP 57627 19207

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030090 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and**

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Good Good Invertebrates

good)

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pΗ High High

Poor (Very Certain) Phosphate

Poor

Disproportionately expensive

(P1c)

Temperature High High High

Ammonia (Annex 8) High

Supporting conditions

Current status (and Element certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Supports Good Morphology Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Lake - L1 Surveillance site: No

Waterbody ID and Name: GB30639472 Grimsbury Reservoir

National Grid Reference: SP 45954 42160

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Recreation, Water Regulation (impoundment release)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

B.6 Colne river catchment

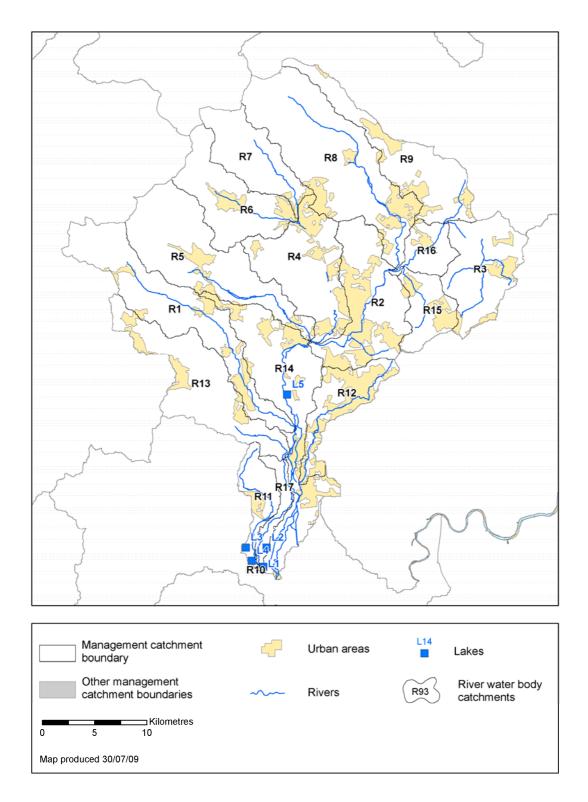
Rivers and Lakes

There are 17 river water bodies (of which 7 are designated as heavily modified) and 5 lake water bodies (all of which are designated as artificial) within the Colne river catchment.

Figure B.6.1 Status objectives for rivers and lakes in the Colne river catchment

	Proposed status/potential objective				
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	3	3	10	7	10
Lakes	0	0	0	0	0
Heavily modified water bodies	1	1	7	6	7
Artificial water bodies	2	2	5	3	5

Figure B.6.2 River and lake water bodies in the Colne river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Colne catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Surveillance site: No Waterbody Category and Map Code.: River - R1

Waterbody ID and Name: GB106039029830 Misbourne

National Grid Reference: SU 99310 93284

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Water Storage - non-specific

Downstream Waterbody ID: GB106039023090

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Poor Poor (Very Certain) Not Required (MS) Poor (Quite Certain) Moderate Invertebrates Not Required (MS)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High

Dissolved Oxygen Moderate (Uncertain) Moderate

Disproportionately expensive

(DO1a)

рΗ High High Phosphate High High **Temperature** Good Good Copper High High Zinc High High Ammonia (Annex 8) High High

Ecological Potential Assessment

Current status Predicted Status by Justification for not achieving Element 2015

Mitigation Measures Good Good

Assessment

good status by 2015

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R2 Surveillance site: No

Waterbody ID and Name: GB106039029840 Colne (from Confluence with Ver to Gade)

National Grid Reference: TQ 11674 97282

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023090

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Uncertain)	Moderate	Disproportionately expensive (HR4a), Technically infeasible

(B2p, INNS2a)

Invertebrates Poor (Very Certain) Moderate Technically infeasible (B2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)
Temperature	High	High	,
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Does not Support Good (Quite Certain)	Does not Support Good	Disproportionately expensive (HR4a)
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element Current status (and certainty of less than good)

Current status (and predicted Status by certainty of less than good status by 2015 good status by 2015

900

Lead And Its Compounds High High
Nickel And Its Compounds High High

Waterbody Category and Map Code.: River - R3 Surveillance site: No

Waterbody ID and Name: GB106039029850 Colne (upper east arm including Mimshall Brook)

National Grid Reference: TQ 23032 98863

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029820

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

good)

Moderate Moderate (Quite Certain) Disproportionately expensive

(HR4a)

Supporting elements

Invertebrates

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Phosphate Poor (Very Certain) Poor

Disproportionately expensive (P1a)

Temperature High High

Arsenic High High Copper High High Iron High High Zinc High High

High

Supporting conditions

Ammonia (Annex 8)

Morphology

Current status (and Predicted Status by Justification for not achieving Element

High

certainty of less than 2015 good status by 2015

Supports Good

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

Good Flow (Quite Certain) (HR4a)

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

Waterbody Category and Map Code.: River - R4 Surveillance site: No

Waterbody ID and Name: GB106039029860 Gade (from confluence with Bulbourne to Chess)

National Grid Reference: TQ 08693 95283

Current Overall Potential Bad

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Navigation, Urbanisation

Downstream Waterbody ID: GB106039023090

Ecological Potential

Current Status (and certainty that status is less than good)

Bad (Very Certain)

Biological elements

Element	Current status (and	Predicted Status by	Justification for not achieving
	certainty of less than	2015	good status by 2015

good)

Good Good

Invertebrates Bad (Very Certain) Bad Disproportionately expensive

(HR2a)

Supporting elements

Fish

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1c)
Temperature	High	High	,
2,4-dichlorophenol	High	High	
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	High	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Permethrin	High	High	
Toluene	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions				
Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015	
Quantity and Dynamics of Flow	Does not Support Good (Uncertain)	Does not Support Good	Disproportionately expensive (HR2a)	
Ecological Potential Asse	Ecological Potential Assessment			
Element	Current status	Predicted Status by 2015	Justification for not achieving good status by 2015	
Mitigation Measures Assessment	Moderate	Moderate	Technically infeasible (M3b, M3g)	

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Sediment management	In Place
Bank rehabilitation / reprofiling	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Alter timing of dredging / disposal	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Manage disturbance	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Reduce sediment resuspension	In Place
Appropriate vegetation control technique	In Place
Modify vessel design	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Vessel Management	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Alteration of channel bed (within culvert)	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Remove obsolete structure	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Uncertain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Atrazine	High	High	
Benzene	High	High	
Lead And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Tributyltin Compounds	Moderate (Uncertain)	Moderate	Technically infeasible (C2a)
Trifluralin	High	High	

Surveillance site: No Waterbody Category and Map Code.: River - R5

Waterbody ID and Name: GB106039029870 Chess

National Grid Reference: SP 96665 00554

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029860

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Moderate (Uncertain) High Invertebrates High

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015

good)

High

good status by 2015

Ammonia (Phys-Chem) High Dissolved Oxygen High High pН High High

Phosphate Poor (Very Certain)

Poor

Disproportionately expensive

(P1c)

Temperature Good Good Copper High High Zinc High High

High

Ammonia (Annex 8)

Supporting conditions

Element **Current status (and**

certainty of less than good)

Predicted Status by 2015

Does not Support

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Does not Support Good (Quite Certain)

Supports Good

Good Supports Good

High

Disproportionately expensive

(HR4a)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R6 Surveillance site: No

Waterbody ID and Name: GB106039029890 Bulbourne

National Grid Reference: TL 01428 06755

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Land Drainage, Navigation, Recreation, Urbanisation,

Wider Environment

GB106039029860 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

good)

Predicted Status by

Justification for not achieving

good status by 2015

Invertebrates Bad (Very Certain) Moderate Not Required (MS)

Supporting elements

Current status (and Element

certainty of less than

good)

Predicted Status by

2015

High

High

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good High pΗ High

Phosphate

Poor (Very Certain)

Poor

High High High High

Zinc High Ammonia (Annex 8) High Disproportionately expensive

(P1c)

Supporting conditions

Temperature

Copper

Element Current status (and

certainty of less than

good)

Predicted Status by

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status **Predicted Status by** 2015

good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Disproportionately expensive (M2c), Technically infeasible (M3a, M3b, M3c, M3g)

83

Justification for not achieving

Environment Agency, Annex B Thames River Basin District, December 2009

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Sediment management	In Place
Bank rehabilitation / reprofiling	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Alter timing of dredging / disposal	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Manage disturbance	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Reduce sediment resuspension	In Place
Appropriate vegetation control technique	In Place
Modify vessel design	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Vessel Management	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins Sediment management strategies (develop and revise)	In Place
Appropriate techniques (invasive species)	In Place
	In Place
Appropriate timing (vegetation control)	
Alteration of channel bed (within culvert)	Not In Place Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc Remove obsolete structure	Not In Place
	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Pentachlorophenol	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R7 Surveillance site: No

Waterbody ID and Name: GB106039029900 Gade (Upper stretch Great Gaddesden to confluence with Bulbourne / GUC)

National Grid Reference: TL 05153 08678

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029860

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate (Quite Certain) Good

Moderate (Quite Certain) Good Invertebrates

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015

good)

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Bad (Very Certain) Good pН High High Phosphate High High Temperature High High Copper High High

Zinc High Ammonia (Annex 8) High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

High

High

good)

Quantity and Dynamics of Does not Support Good Does not Support

Flow (Uncertain) Good Morphology Supports Good Supports Good Disproportionately expensive (HR2a)

Chemical Status

Current Status (and certainty that status is less than good)

(HR2a)

Waterbody Category and Map Code.: River - R8 Surveillance site: No

Waterbody ID and Name: GB106039029920 Ver

National Grid Reference: TL 08560 14969

Current Overall Status Bad

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029840

Ecological Status

Current Status (and certainty that status is less than good)

Bad (Very Certain)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Moderate	Disproportionately expensive (HR2a, M5a)
Invertebrates	Bad (Verv Certain)	Poor	Disproportionately expensive

Supporting elements

Element	current status (and certainty of less than good)	2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Does not Support Good (Uncertain)	Does not Support Good	Disproportionately expensive (HR2a)
Morphology	Does not Support Good	Does not Support Good	Disproportionately expensive (M5a)

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R9

Waterbody ID and Name: GB106039029930 Ellen Brook

National Grid Reference: TL 21098 07509

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Land Drainage, Urbanisation

GB106039029820 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by**

certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Poor Invertebrates Poor (Very Certain) Not Required (MS)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

High

High

good)

Ammonia (Phys-Chem) High

Dissolved Oxygen Bad (Very Certain)

Bad High High High High High High

Ammonia (Annex 8) High Technically infeasible (DO2a)

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of Supports Good

pΗ

Phosphate

Temperature

Ecological Potential Assessment

Predicted Status by Justification for not achieving Element **Current status** 2015

good status by 2015

Moderate Moderate Mitigation Measures Technically infeasible (M3a, M3b, Assessment

M3c)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Selective vegetation control regime	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Remove obsolete structure	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R10 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039023000 Colne Brook (from confluence with Horton Brook to

National Grid Reference: TQ 01957 72208

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023231

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Good Good

Supporting elements

Dissolved Oxygen

pΗ

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

High Ammonia (Phys-Chem) High High High High High

Poor (Very Certain) Phosphate

Poor

Temperature High High Arsenic High High Copper High High Iron High High High

Zinc High Ammonia (Annex 8) High

Supporting conditions

Element Current status (and

good)

certainty of less than

Predicted Status by 2015

Justification for not achieving good status by 2015

Disproportionately expensive

Quantity and Dynamics of

Flow

Morphology

Does not Support Good (Uncertain)

Supports Good

Does not Support Good

Supports Good

High

Disproportionately expensive

(HR2a)

(P1a)

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

Waterbody Category and Map Code.: River - R11 Surveillance site: No

Waterbody ID and Name: GB106039023040 Horton Brook

National Grid Reference: TQ 02928 78023

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Natura 2000 (Habitats and/or Birds Directive)

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023000

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Quite Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Invertebrates Moderate (Quite Certain) Moderate Technically infeasible (B2p)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

High Ammonia (Phys-Chem) High Dissolved Oxygen Good Good pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R12 Surveillance site: No

Waterbody ID and Name: GB106039023070 Pinn

National Grid Reference: TQ 11286 89154

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106039023090

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Moderate (Uncertain) Moderate Not Required (MS) Moderate (Quite Certain) Invertebrates Moderate Not Required (MS)

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

Element Current status (and Predicted Status by Justification for not achieving 2015 good status by 2015

Poor

certainty of less than

good)

High High

High High

pН High High

Poor (Very Certain) Phosphate Disproportionately expensive (P1a)

High **Temperature** High

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Predicted Status by Element Current status Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Set-back embankments	In Place
Flood bunds (earth banks, in place of floodwalls)	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Improve floodplain connectivity	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Colne

Waterbody Category and Map Code.: River - R13 Surveillance site: No

Waterbody ID and Name: GB106039023080 Alderbourne

National Grid Reference: TQ 03534 84849

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023010

Ecological Status

Current Status (and certainty

Good that status is less than good)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than good)

Invertebrates Good Good

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R14 Surveillance site: No

Waterbody ID and Name: GB106039023090 Colne and GUC (from confluence with Chess to

National Grid Reference: TQ 03344 75426

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation

Downstream Waterbody ID: GB106039023231

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Very Certain)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Very Certain)	Moderate	Disproportionately expensive (HR2a)
Invertebrates	Moderate (Quite Certain)	Moderate	Disproportionately expensive (HR2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)
Temperature	High	High	
2,4-dichlorophenol	High	High	
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	High	High	
Diazinon	High	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Permethrin	High	High	
Toluene	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than good status by 2015 2015 good) Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive (Uncertain) Good (HR2a) Flow

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Assessment Moderate Predicted Status by 2015

Moderate Technically infeasible (M3a, M3g)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Reduce sediment resuspension	In Place
Bank rehabilitation / reprofiling	In Place
Flood bunds (earth banks, in place of floodwalls)	In Place
Set-back embankments	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works) Reduce impact of dredging	In Place
Alter timing of dredging / disposal	In Place
Sediment management	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Manage disturbance	In Place
Prepare a dredging / disposal strategy	In Place
Modify vessel design	In Place
Vessel Management	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Remove obsolete structure	Not In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Improve floodplain connectivity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Uncertain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzene	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Moderate (Uncertain)	Moderate	Technically infeasible (C2a)
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Chlorfenvinphos	High	High	
Diuron	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Isoproturon	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Tributyltin Compounds	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

RBD: 6 Catchment: Colne

Waterbody Category and Map Code.: River - R15 Surveillance site: No

Waterbody ID and Name: GB106039023100 **Tykeswater**

National Grid Reference: TQ 17325 98876

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029820

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Invertebrates Good Good

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

Supports Good

good)

Supports Good Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty

that status is less than good)

Waterbody Category and Map Code.: River - R16 Surveillance site: No

Waterbody ID and Name: GB106039029820 Colne (upper stretch, Hatfield to confluence with

National Grid Reference: TL 16097 02236

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029840

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Quite Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Invertebrates Moderate (Quite Certain) Moderate Disproportionately expensive

(HR4a)

(HR4a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High pН High High Arsenic High High High High Copper Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

ow (Uncertain) Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty

that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Waterbody Category and Map Code.: River - R17 Surveillance site: No

Waterbody ID and Name: GB106039023010 Colne Brook (from confluence with Alderbourne to

confluence with Horton Brook)

National Grid Reference: TQ 04713 80278

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106039023000

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and

certainty of less than

2015

Justification for not achieving

good status by 2015

Fish Moderate (Uncertain)

Good

good)

Moderate Good

Not Required (MS)

Supporting elements

Invertebrates

Element Current status (and

certainty of less than

good)

Predicted Status by

Predicted Status by

2015

Poor

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pН High High

Phosphate

Poor (Very Certain)

Disproportionately expensive

(P1a)

High **Temperature** High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

good)

Supports Good

Ecological Potential Assessment

Current status Element

Predicted Status by 2015

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3a)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Flood bunds (earth banks, in place of floodwalls)	In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Improve floodplain connectivity	Not In Place
Set-back embankments	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Lake - L1 Surveillance site: No

Waterbody ID and Name: GB30642538 Heron Lake

National Grid Reference: TQ 02104 72746

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Recreation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Lake - L2 Surveillance site: No

Waterbody ID and Name: GB30642417 Wraysbury Reservoir

National Grid Reference: TQ 02431 74593

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Natura 2000

(Habitats and/or Birds Directive)

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Chironom Invertebrates Poor (Very Certain) Poor Technically infeasible (B2a)

Phytoplankton High High

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Total Phosphorus Bad (Very Certain) Bad Disproportionately expensive

Copper High High
Zinc High High

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

(P1a)

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Colne RBD: 6

Lake - L3 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30642430 Wraysbury No1 Gravel Pit

National Grid Reference: TQ 00437 74609

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive)

No SSSI (Non-N2K) related:

Hydromorphological Designation: Artificial

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

good) Phytoplankton Good

Supporting elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Good

Justification for not achieving

good status by 2015

Total Phosphorus

Moderate (Uncertain)

Moderate

Disproportionately expensive

(P1o)

High High Copper Zinc High High

good)

good)

Supporting conditions

Element Current status (and

certainty of less than

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Supports Good Supports Good

Ecological Potential Assessment

Element **Current status**

Predicted Status by 2015

Predicted Status by

Justification for not achieving good status by 2015

Mitigation Measures Moderate

Assessment

Moderate

Disproportionately expensive

(M2c)

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Colne RBD: 6

Lake - L4 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30642489 Wraysbury II Gravel Pit/ Wellapool Lake

National Grid Reference: TQ 01010 73330

Current Overall Potential Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Natura 2000 (Habitats and/or Birds Directive)

No SSSI (Non-N2K) related:

Hydromorphological Designation: Artificial

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Poor Phytoplankton Poor (Very Certain) Disproportionately expensive

(P1a)

(P1a)

Supporting elements

Current status (and **Predicted Status by** Justification for not achieving Element certainty of less than 2015 good status by 2015

good)

Total Phosphorus Poor (Very Certain) Poor Disproportionately expensive

Copper High High

Zinc High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving

good status by 2015 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Colne RBD: 6

Waterbody Category and Map Code.: Lake - L5 Surveillance site: No

Waterbody ID and Name: GB30641907 Mid Colne Valley

National Grid Reference: TQ 04398 89378

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Recreation, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

B.7 Cotswolds river catchment

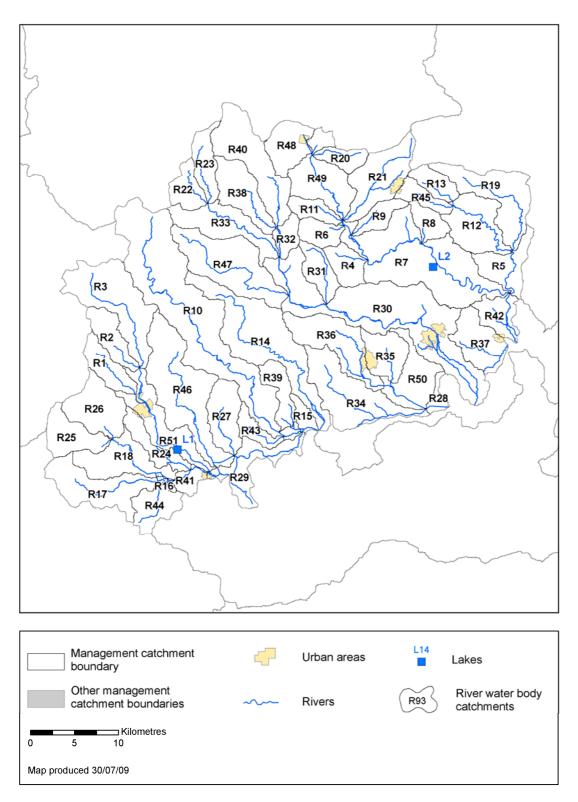
Rivers and Lakes

There are 51 river water bodies (of which 2 are designated as heavily modified) and 2 lake water bodies (one designated as artificial and the other as heavily modified) within the Cotswolds river catchment.

Figure B.7.1 Status objectives for rivers and lakes in the Cotswolds river catchment

Proposed status/potential objective					
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	24	24	49	25	49
Lakes	0	0	0	0	0
Heavily modified water bodies	1	1	3	2	3
Artificial water bodies	0	0	1	1	1

Figure B.7.2 River and lake water bodies in the Cotswolds river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Cotswolds catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Waterbody Category and Map Code.: River - R1 Surveillance site: No

Waterbody ID and Name: GB106039029770 Daglingworth Stream (Source to Churn)

National Grid Reference: SP 00115 04200

Current Overall Status Bad

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029750

Ecological Status

Current Status (and certainty that status is less than good)

Bad (Very Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Bad (Very Certain) Bad Technically infeasible (B2a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem)HighHighDissolved OxygenHighHighpHHighHighPhosphateHighHighTemperatureHighHigh

High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

High

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

Flow (Quite Certain) Good (HR4a)

Supports Good

Chemical Status

Morphology

Ammonia (Annex 8)

Current Status (and certainty Does not require assessment

Supports Good

Waterbody Category and Map Code.: River - R2 Surveillance site: No

Waterbody ID and Name: GB106039029790 Elkstone Brook

National Grid Reference: SP 00196 07022

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029750

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good)

Supports Good

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R3 Surveillance site: Yes

Waterbody ID and Name: <u>GB106039029810</u> Churn (source to Perrots Brook)

National Grid Reference: SP 01335 11347

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029750

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Moderate	Disproportionately expensive (B1a)
Invertebrates	High	High	
Macrophytes	Moderate (Uncertain)	Moderate	Technically infeasible (B2a)
Phytobenthos	Poor (Very Certain)	Poor	Technically infeasible (B2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow Morphology	Does not Support Good (Quite Certain) Supports Good	Does not Support Good Supports Good	Disproportionately expensive (HR4a)

Chemical Status

Current Status (and certainty that status is less than good)

River - R4 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039029910 Littlestock Stream to tributary of Evenlode at

National Grid Reference: SP 26168 18702

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029960

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Good Invertebrates Good

Poor Phytobenthos Poor (Very Certain) Disproportionately expensive

(P1b)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than good status by 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High рΗ High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

(P1b)

Temperature High High Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R5 Surveillance site: No

Waterbody ID and Name: GB106039029940 Glyme (Dorn confluence to Evenlode)

National Grid Reference: SP 43677 16280

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039029880 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate Poor (Very Certain) Technically infeasible (B2a) Poor (Quite Certain) Moderate Technically infeasible (B2a) Invertebrates

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate Good Good Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

good status by 2015

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good

Quantity and Dynamics of

Flow

Morphology Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R6 Surveillance site: No

Waterbody ID and Name: GB106039029950 Westcote Brook (source to Evenlode at Bledington)

National Grid Reference: SP 24590 21916

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029960

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R7 Surveillance site: No

Waterbody ID and Name: GB106039029960 Evenlode (Bledington to Glyme confluence)

National Grid Reference: SP 40761 15179

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029880

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Fish

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

Moderate

certainty of less than

good)

Disproportionately expensive (B1a), Technically infeasible

(B2p)

Invertebrates Moderate Moderate (Uncertain) Technically infeasible (B2p)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

Moderate (Uncertain)

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High High

рΗ High

Phosphate Moderate (Very Certain)

Moderate Disproportionately expensive (P1b)

Good Temperature Good Copper High High Zinc High High High Ammonia (Annex 8) High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R8 Surveillance site: No

Waterbody ID and Name: GB106039029970 Coldron and Taston Brooks

National Grid Reference: SP 34498 21172

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029960

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	Good	Good	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

Supports Good

good)

Quantity and Dynamics of Flow

Supports Good Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Bledington)

Waterbody Category and Map Code.: River - R9 Surveillance site: No

Waterbody ID and Name: GB106039029980 Sars Brook (source to Evenlode downstream

National Grid Reference: SP 27460 22435

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029960

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

	Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem) High High	Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen High High	Dissolved Oxygen	High	High	
pH High High	рН	High	High	
Phosphate Good Good	Phosphate	Good	Good	
Temperature High High	Temperature	High	High	
Ammonia (Annex 8) High High	Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good)

Supports Good

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R10 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039029990 Coln (Source to Thames)

National Grid Reference: SP 02575 17834

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Good by 2027 Status Objective (Overall):

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023240

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Fish

Element	Current status (and	Predicted Status by	Justification for not achieving
	certainty of less than	2015	good status by 2015

good)

Poor (Very Certain) Moderate

Invertebrates High High Macrophytes Moderate (Uncertain) Good

High

High

High

Technically infeasible (B2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Copper	High	High	

High

High

High

Supporting conditions

Ammonia (Annex 8)

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of	Supports Good	Supports Good	

Quantity and Dynamics of

Flow

Iron

Zinc

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Cadmium And Its Compounds	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Waterbody Category and Map Code.: River - R11 Surveillance site: No

Waterbody ID and Name: GB106039030000 Bledington Brook (Source to Evenlode)

National Grid Reference: SP 22773 24251

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029960

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Uncertain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Invertebrates Good Good

Phytobenthos Poor (Very Certain) Poor Technically infeasible (B2a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015 good)

3 · ·

Ammonia (Phys-Chem) High High

Dissolved Oxygen Moderate (Quite Certain) Moderate Disproportionately expensive (DO1a)

pH High High
Phosphate High High
Temperature Good Good

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Surveillance site: No Waterbody Category and Map Code.: River - R12

Waterbody ID and Name: GB106039030010 Glyme (Enstone to Dorn)

National Grid Reference: SP 42450 20860

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039029940 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

good status by 2015 certainty of less than 2015

good)

Fish Poor (Very Certain) Poor Technically infeasible (B2p)

Good Invertebrates Good

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate High High Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High good status by 2015

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Supports Good

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

good status by 2015

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R13 Surveillance site: No

Waterbody ID and Name: GB106039030030 Heythorpe Stream and tributaries

National Grid Reference: SP 36348 25824

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030010 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Moderate (Uncertain) Invertebrates High High

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate High High Temperature High High Ammonia (Annex 8) High High good status by 2015

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R14 Surveillance site: No

Waterbody ID and Name: GB106039030040 Leach (Source to Thames)

National Grid Reference: SP 16607 08410

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030332 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

good status by 2015 2015

Fish Moderate Moderate (Quite Certain) Technically infeasible (B2p)

Good Invertebrates Good

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate High High Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High good status by 2015

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: Yes Waterbody Category and Map Code.: River - R15

Waterbody ID and Name: GB106039023240 Thames (Coln to Leach)

National Grid Reference: SU 21428 99319

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment **Protected Area Designation:**

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Navigation

Downstream Waterbody ID: GB106039030332

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Element Current status (and

Predicted Status by certainty of less than

2015

Justification for not achieving

good status by 2015

Invertebrates High High

good)

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Predicted Status by Justification for not achieving **Element Current status** 2015

good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3g)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Lateral zoning to concentrate boats within a central track	In Place
Vessel Management	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Reduce sediment resuspension	Not In Place
Increase in-channel morphological diversity	Not In Place
Bank rehabilitation / reprofiling	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Reduce impact of dredging	Not In Place
Alter timing of dredging / disposal	Not In Place
Sediment management	Not In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	Not In Place
Manage disturbance	Not In Place
Prepare a dredging / disposal strategy	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R16 Surveillance site: No

Waterbody ID and Name: GB106039023640 Swill Brook and Thames (High Bridge to Waterhay

National Grid Reference: SU 05263 93059

Bridge)

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022960

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R17

Waterbody ID and Name: GB106039023700 Swill Brook (source to Ashton Keynes)

National Grid Reference: ST 99342 92365

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023640

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate (Quite Certain) Good Good Invertebrates Good

Supporting elements

Current status (and Element Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pН High High Phosphate High High Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Supports Good

Supports Good

Morphology

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R18 Surveillance site: No

Waterbody ID and Name: GB106039023760 Thames (Kemble to Waterhay Bridge)

National Grid Reference: ST 99990 97305

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Bathing Water Directive, Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022960

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

good status by 2015 certainty of less than 2015

good)

Fish Poor Poor (Quite Certain) Technically infeasible (B2a)

Good Invertebrates Good

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate High High Temperature High High Ammonia (Annex 8) High High good status by 2015

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Does not Support Good (Uncertain)

Supports Good

Does not Support Good Supports Good

Disproportionately expensive

(HR2a)

Chemical Status

Morphology

Current Status (and certainty that status is less than good)

River - R19 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039037380 Dorn (Source to Glyme)

National Grid Reference: SP 45557 23872

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029940

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Quite Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Moderate Moderate (Quite Certain) Technically infeasible (B2p,

INNS1a) Invertebrates Good Good

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

River - R20 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Little Compton Brook and tributaries (Source to GB106039037390

National Grid Reference: SP 24362 30803

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037410

Ecological Status

Current Status (and certainty

Good that status is less than good)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Invertebrates High High

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

Supports Good

good)

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty

that status is less than good)

Waterbody Category and Map Code.: River - R21 Surveillance site: No

Waterbody ID and Name: GB106039037400 Cornwell Brook and tributaries (Source to

National Grid Reference: SP 30471 26793

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039029960 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate Moderate (Uncertain) Disproportionately expensive

(B1a)

Invertebrates Good Good

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

(P1b)

Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

рΗ

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

River - R22 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Slade Barn Stream (Source to Windrush) GB106039037440

National Grid Reference: SP 07993 26548

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030480

Ecological Status

Current Status (and certainty

Good (Uncertain) that status is less than good)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Invertebrates High High

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving 2015 good status by 2015

Supports Good

certainty of less than

good)

Does not Support Good Quantity and Dynamics of

(Uncertain)

Morphology Supports Good Supports Good

Chemical Status

Flow

Current Status (and certainty Does not require assessment

River - R23 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: Windrush (Source to Slade Barn Stream) GB106039037460

National Grid Reference: SP 09116 28020

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030480

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting elements

Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
High	High	
	certainty of less than good) High High High High High	certainty of less than good) High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good)

Supports Good

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R24 Surveillance site: No

Waterbody ID and Name: GB106039023800 Cerney Wick Brook (source to Thames)

National Grid Reference: SU 04787 96116

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022960

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than good)

2015

good status by 2015

Fish Poor (Very Certain) Moderate

Disproportionately expensive

(P1b), Technically infeasible

(B2p)

Invertebrates Good Good

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High

Phosphate Bad (Very Certain)

Bad

Disproportionately expensive

good status by 2015

(P1b)

High Temperature High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Element **Current status (and Predicted Status by** Justification for not achieving

2015

certainty of less than good)

Supports Good

Supports Good

Flow Morphology Supports Good Supports Good

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

RBD: 6

Waterbody Category and Map Code.: River - R25 Surveillance site: No

Waterbody ID and Name: Kemble Ditch at Kemble GB106039023810

National Grid Reference: ST 98386 97614

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023760

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good)

Quantity and Dynamics of

Flow Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6

River - R26 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Thames (Source to Kemble) GB106039030170

National Grid Reference: ST 98611 98749

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023760

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good)

Quantity and Dynamics of

Flow

Morphology Supports Good

Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R27 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023860 Marston Meysey Brook

National Grid Reference: SU 11573 98572

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022990

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

Invertebrates Good Good good status by 2015

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good) Ammonia (Phys-Chem) High

High Dissolved Oxygen High High High High Phosphate High High Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

pΗ

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Supports Good

(Quite Certain) Flow

Supports Good Morphology Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R28 Surveillance site: No

Waterbody ID and Name: GB106039023870 Great brook (Shill Brook to Thames)

National Grid Reference: SP 36004 01709

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030333

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

RBD: 6

Fish Good Poor (Quite Certain) Invertebrates High High

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) Good Good Dissolved Oxygen Good Good pН Moderate (Quite Certain)

Phosphate

Good

Poor (Quite Certain)

Moderate

Disproportionately expensive

(P1a)

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) Good Good

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

Supports Good

good)

Quantity and Dynamics of

Flow

Supports Good Morphology

Supports Good

Supports Good

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R29 Surveillance site: No

Waterbody ID and Name: GB106039022990 Thames (Churn to Coln)

National Grid Reference: SU 16115 96221

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023240

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Moderate (Uncertain) Moderate Technically infeasible (B2p)

Invertebrates Good Good

Phytobenthos Poor (Very Certain) Poor Disproportionately expensive

(P1c)

Supporting elements

Element Current status (and certainty of less than Current status (and certainty of less than Current status (and certainty of less than 2015 Justification for not achieving good status by 2015

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High
PH High High

Phosphate Moderate (Very Certain) Moderate

Temperature High High
Copper High High
Zinc High High

High

Disproportionately expensive

(P1c)

Supporting conditions

Quantity and Dynamics of

Ammonia (Annex 8)

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

High

good)

Supports Good Supports Good

Flow
Morphology Supports Good Supports Good

Environment Agency, Annex B Thames River Basin District, December 2009

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R30 Surveillance site: Yes

Waterbody ID and Name: GB106039030440 Windrush and tributaries (Little Rissington to

National Grid Reference: SP 38371 06636

Current Overall Status Moderate

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030333

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Good	Good	
Invertebrates	High	High	
Macrophytes	Moderate (Very Certain)	Good	

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
2,4-dichlorophenol	High	High	
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	High	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Permethrin	High	High	
Toluene	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supports Good

Supporting conditions

Element Current status (and certainty of less than good)

Current status (and Predicted Status by 2015 good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Atrazine	High	High	
Benzene	High	High	
Lead And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Tributyltin Compounds	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

River - R31 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039030450 Taynton Stream (source to Windrush)

National Grid Reference: SP 23290 17158

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030440

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Justification for not achieving Element Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Quantity and Dynamics of Supports Good Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R32 Surveillance site: Yes Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039030470 Dikler (Wyck Rissington to Windrush) and Lower

National Grid Reference: SP 18061 19740

Current Overall Status Good

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030440

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Current status (and Element

certainty of less than

good)

2015

Predicted Status by

Justification for not achieving

good status by 2015

Invertebrates High High

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Phosphate Good High Temperature High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6

River - R33 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039030480 Windrush (Slade Barn Stream to Dikler)

National Grid Reference: SP 13924 22334

Current Overall Status Good

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030440

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Good Good

Fish High Invertebrates High

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015 good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate High High Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Quantity and Dynamics of Flow

Morphology

Does not Support Good Does not Support (Uncertain) Good Supports Good Supports Good

good status by 2015

Disproportionately expensive (HR2a)

Current Status (and certainty that status is less than good)

River - R34 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039030230 Broadwell Brook, Langford Brook, Kelmscott Brook,

National Grid Reference: SP 25265 03084

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

GB106039023870 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

RBD: 6

good status by 2015

Not Required (MS)

Fish Moderate Poor (Very Certain)

Good Invertebrates Good

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High

Dissolved Oxygen Moderate (Uncertain) Moderate

Disproportionately expensive

(DO1a)

рΗ High High Phosphate Good Good **Temperature** High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Improve floodplain connectivity	In Place
Set-back embankments	In Place
Flood bunds (earth banks, in place of floodwalls)	In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R35 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039030260 Highmoor Brook at Brize Norton

National Grid Reference: SP 30273 06928

Current Overall Status Good

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030250 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Invertebrates Good Good

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Predicted Status by Justification for not achieving Element Current status (and certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Supports Good Supports Good Morphology

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R36 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039030280 Shill Brook and Kencot Brook at Carterton

National Grid Reference: SP 26980 08205

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030250 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Current status (and Element **Predicted Status by**

good)

certainty of less than 2015

Justification for not achieving

RBD: 6

good status by 2015

Good Good Invertebrates

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

good status by 2015

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of Supports Good

Flow

Supports Good Supports Good Morphology

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

RBD: 6

Waterbody Category and Map Code.: River - R37 Surveillance site: No

Waterbody ID and Name: GB106039030310 Chil and Limb Brooks (source to B4044)

National Grid Reference: SP 40798 08135

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive, Urban Waste Water Treatment Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030333

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Invertebrates

Element **Current status (and Predicted Status by** Justification for not achieving

Moderate

certainty of less than

Poor (Very Certain)

good)

2015 good status by 2015

Disproportionately expensive (DO5a, P1b), Technically

infeasible (B2p)

Moderate **Phytobenthos** Moderate (Quite Certain) Disproportionately expensive

(P1b)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Good

Ammonia (Phys-Chem) Good

Dissolved Oxygen Bad (Very Certain) Bad

Hq High High

Poor (Very Certain) Poor Phosphate

High Temperature High Ammonia (Annex 8) Good Good Disproportionately expensive

(DO5a)

Disproportionately expensive

good status by 2015

(P1b)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving

> certainty of less than 2015

good)

Supports Good

Quantity and Dynamics of Flow

Morphology Supports Good Supports Good

Supports Good

Current Status (and certainty that status is less than good)

River - R38 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039037450 Eye (Source to Dikler)

National Grid Reference: SP 15419 23620

Current Overall Status Good

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030470 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Current status (and Element

certainty of less than

good)

2015

Predicted Status by

Justification for not achieving

good status by 2015

Invertebrates High High

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Phosphate High High High Temperature High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow Morphology Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6

Waterbody Category and Map Code.: River - R39 Surveillance site: No

Waterbody ID and Name: GB106039029760 Thornhill Ditch and tributaries at Cotswolds Water

National Grid Reference: SU 19596 99666

Park

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029990

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than good)

Under the predicted Status by Justification for not achieving good status by 2015 good)

Supports Good

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R40 Surveillance site: Yes

Waterbody ID and Name: GB106039037470 Dikler (Source to Wyck Rissington)

National Grid Reference: SP 17754 22587

Current Overall Status Moderate

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030470

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Good	Good	
Invertebrates	Good	Good	
Macrophytes	Moderate (Uncertain)	Good	
Phytobenthos	Moderate (Quite Certain)	Good	

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Does not Support Good (Uncertain)	Does not Support Good	Disproportionately expensive (HR2a)
Morphology	Supports Good	Supports Good	((20)

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R41 Surveillance site: No

Thames (Waterhaybridge to Cricklade) and Waterbody ID and Name: GB106039022960

Chelworth Brook **National Grid Reference:** SU 06852 93465

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022990

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate (Quite Certain) Moderate Technically infeasible (B2p)

Supporting elements

Current status (and Predicted Status by Justification for not achieving Element certainty of less than good status by 2015 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Phosphate High High Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R42 Surveillance site: No

Waterbody ID and Name: GB106039029880 Evenlode (Glyme to Thames)

National Grid Reference: SP 44144 13359

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030334

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good Invertebrates High High

Phytobenthos Moderate (Uncertain) Moderate Disproportionately expensive

(P1b)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High High High

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive

Temperature High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

(P1b)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

pН

Morphology Supports Good Supports Good

Current Status (and certainty that status is less than good)

River - R43 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023110 **Dudgrove Brook**

National Grid Reference: SU 16302 98268

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029990

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

Good Good good status by 2015

Supporting elements

Invertebrates

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

good status by 2015

Supporting conditions

Predicted Status by Justification for not achieving Element Current status (and certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good

Flow

Supports Good Morphology

Supports Good

Supports Good

Chemical Status

Current Status (and certainty Does not require assessment that status is less than good)

River - R44 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039023620 Derry Brook and Leighfield Brook

National Grid Reference: SU 03748 90153

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023640

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Invertebrates Moderate Moderate (Quite Certain) Technically infeasible (B2p)

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R45 Surveillance site: No

Waterbody ID and Name: GB106039030020 Glyme (Source to Enstone)

National Grid Reference: SP 35253 25001

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030010

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Does not Support Good

Quantity and Dynamics of

Flow

Morphology Supports Good

(Uncertain) Good Supports Good Supports Good

Does not Support Disproportionately expensive Good (HR2a)

(11112a

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6

River - R46 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039030300 Ampney and Poulton Brooks (Source to Thames)

National Grid Reference: SU 09696 96523

Bad **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022990

Ecological Status

Current Status (and certainty that status is less than good) Bad (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Bad (Very Certain) Good Invertebrates High High

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015 good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate High High Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Current Status (and certainty that status is less than good)

River - R47 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039030460 Sherbourne Brook

National Grid Reference: SP 13231 17431

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030440 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty

Good that status is less than good)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good Invertebrates High High

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate High High Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High good status by 2015

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Supports Good

Current Status (and certainty that status is less than good)

RBD: 6

River - R48 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039037420 Evenlode (Source to Four Shires S) and

Longborough Stream **National Grid Reference:** SP 21174 31670

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039037410

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by**

certainty of less than

good)

good status by 2015

Supports Good Supports Good

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R49 Surveillance site: No

Waterbody ID and Name: GB106039037410 Evenlode (Compton Bk to Bledington Bk) & 4

National Grid Reference: SP 22232 27745

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039029960

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Fish Good Good

Invertebrates Moderate (Quite Certain) Moderate Disproportionately expensive

(P1b), Technically infeasible

(B2p)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

2015

good status by 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen Good Good High

рΗ

High

Poor (Very Certain) Poor Phosphate Disproportionately expensive

Temperature High High Arsenic High High Copper High High Iron High High Zinc High High

Good

(P1b)

Supporting conditions

Ammonia (Annex 8)

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

Good

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

River - R50 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039030250 Shill Brook, Highmoor Brook and Elm Bank Ditch

National Grid Reference: SP 32693 02413

Current Overall Status Bad

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023870

Ecological Status

Current Status (and certainty that status is less than good) Bad (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than good)

2015

Technically infeasible (B2p)

good status by 2015

Fish Bad (Very Certain) Moderate

High Invertebrates High

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

Current status (and Predicted Status by Element Justification for not achieving 2015 good status by 2015

certainty of less than

good)

High

High

Good

High

High Good Good

pН High Phosphate Good Temperature High

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6

Waterbody Category and Map Code.: River - R51 Surveillance site: No

Waterbody ID and Name: GB106039029750 Churn (Baunton to Cricklade)

National Grid Reference: SU 06110 97358

Current Overall Status Bad

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022990

Ecological Status

Current Status (and certainty that status is less than good) Bad (Uncertain)

Biological elements

Fish

Current status (and Element **Predicted Status by** Justification for not achieving

Moderate

certainty of less than 2015

good)

Bad (Uncertain)

good status by 2015

(B1a)

Invertebrates Poor (Quite Certain) Good

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High Phosphate High High Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Current status (and certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

Disproportionately expensive

good status by 2015

Quantity and Dynamics of

Flow

Element

Morphology

Does not Support Good

(Uncertain)

Supports Good

Does not Support Good

Supports Good

(HR2a)

Disproportionately expensive

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L1 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30641559 Cotswold Water Park Lake 12

National Grid Reference: SU 06381 96818

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Artificial **Hydromorphological Designation:**

Reason for Designation: Recreation, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

RBD: 6

good status by 2015

Good Chironom Invertebrates Good Macrophytes Good Good

Phytobenthos Moderate (Quite Certain) Moderate Disproportionately expensive

(B1a), Technically infeasible

(B2a)

Phytoplankton High High

Supporting elements

Acid Neutralising Capacity

Ammonia (Phys-Chem)

Dissolved Oxygen

Total Phosphorus

Ammonia (Annex 8)

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

High High High High Good Good High High

good status by 2015

Ecological Potential Assessment

Predicted Status by Element **Current status** Justification for not achieving 2015 good status by 2015

High

Good Mitigation Measures Good

High

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Cotswolds RBD: 6

Waterbody Category and Map Code.: Lake - L2 Surveillance site: No

Waterbody ID and Name: GB30640488 Cornbury Park Lakes

National Grid Reference: SP 35470 17728

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Recreation, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Do that status is less than good)

B.8 Darent and Cray river catchments

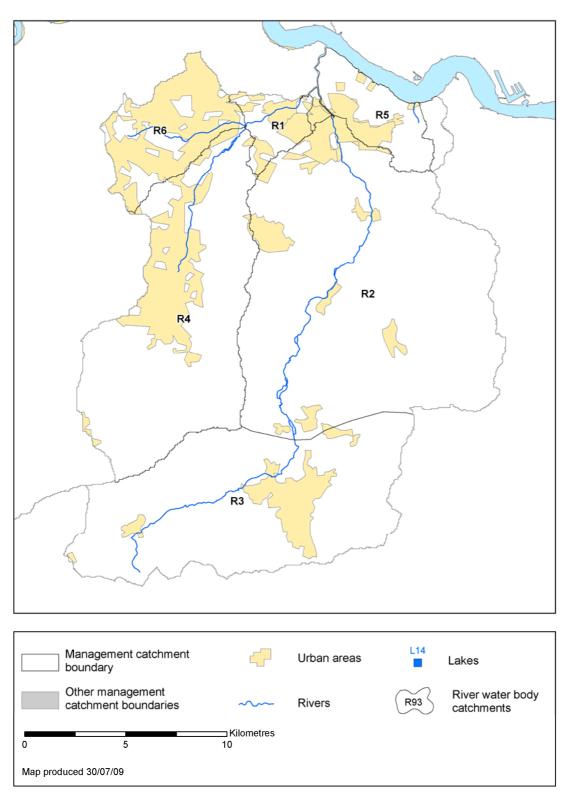
Rivers and Lakes

There are 6 river water bodies (of which 4 are designated as heavily modified) within the Darent and Cray river catchments. There are no lake water bodies.

Figure B.8.1 Status objectives for rivers and lakes in the Darent and Cray river catchments

	Proposed status/potential objective				
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	1	1	2	1	2
Lakes	0	0	0	0	0
Heavily modified water bodies	1	1	4	3	4
Artificial water bodies	0	0	0	0	0

Figure B.8.2 River and lake water bodies in the Darent and Cray river catchments Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Darent and Cray catchments

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Surveillance site: No Waterbody Category and Map Code.: River - R1

Waterbody ID and Name: GB106040024150 **Lower Cray**

National Grid Reference: TQ 51527 74815

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Fish Moderate (Quite Certain) Moderate

Disproportionately expensive

(HR4a)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pΗ High High Good Phosphate Good Temperature High High Arsenic High High Copper High High Iron High High Phenol High High Zinc High High Ammonia (Annex 8) High High

good status by 2015

Supporting conditions

Flow

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Quantity and Dynamics of Does not Support Good

(Quite Certain)

Does not Support Good

good status by 2015

Disproportionately expensive (HR4a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Appropriate timing (vegetation control)	Not In Place
Appropriate vegetation control technique	Not In Place
Selective vegetation control regime	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Very Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Moderate (Very Certain)	Moderate	Technically infeasible (C2a)
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Diuron	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Trichlorobenzenes	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

River - R2 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040024222 Mid Darent

National Grid Reference: TQ 56256 70685

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530603911402

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Good

Fish Good Invertebrates Good Good

Supporting elements

Current status (and Predicted Status by Element certainty of less than 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate High High Temperature High High 2,4-dichlorophenoxyacetic High High acid Arsenic High High Copper High High Cyanide High High Dimethoate High High Iron High High Phenol High High Zinc High High Ammonia (Annex 8) High High

Justification for not achieving good status by 2015

Supporting conditions

Element Current status (and

certainty of less than good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Flow

Morphology

Does not Support Good (Quite Certain) Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Diuron	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

River - R3 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040024221 **Upper Darent**

National Grid Reference: TQ 48328 55400

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040024222

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015 2015

Fish Moderate Poor (Very Certain) Technically infeasible (B2a, S2a)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Phosphate High High Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

good)

Supporting conditions

Quantity and Dynamics of

Flow

Element **Current status (and Predicted Status by** Justification for not achieving 2015

Good

certainty of less than

good)

Does not Support Good Does not Support

(Uncertain)

Morphology Supports Good Supports Good good status by 2015

Disproportionately expensive

(HR2a)

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R4

Waterbody ID and Name: GB106040023990 **Upper Cray**

National Grid Reference: TQ 47246 70048

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040024150

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Good Invertebrates Good

good)

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Phosphate Good Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and**

certainty of less than

good)

Predicted Status by

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Does not Support Good (Quite Certain)

Does not Support

2015

Good

Disproportionately expensive

(HR4a)

Ecological Potential Assessment

Element **Current status** **Predicted Status by** 2015

good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3a)

Justification for not achieving

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R5 Surveillance site: No

Waterbody ID and Name: GB106040024140 Dry valley at Bluewater

National Grid Reference: TQ 58417 74704

Current Overall Potential Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified
Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

Flow (Quite Certain) Good (HR4a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment that status is less than good)

Waterbody Category and Map Code.: River - R6 Surveillance site: No

Waterbody ID and Name: GB106040024210 Shuttle

National Grid Reference: TQ 47121 73303

Current Overall Potential Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040024150

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Quite Certain)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015	
Fish	Poor (Quite Certain)	Poor	Disproportionately expensive (HR2a)	
Invertebrates	Poor (Quite Certain)	Poor	Disproportionately expensive (HR2a)	

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015	
Quantity and Dynamics of Flow	Does not Support Good (Uncertain)	Does not Support Good	Disproportionately expensive (HR2a)	

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)
Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

B.9 Kennet and Pang river catchments

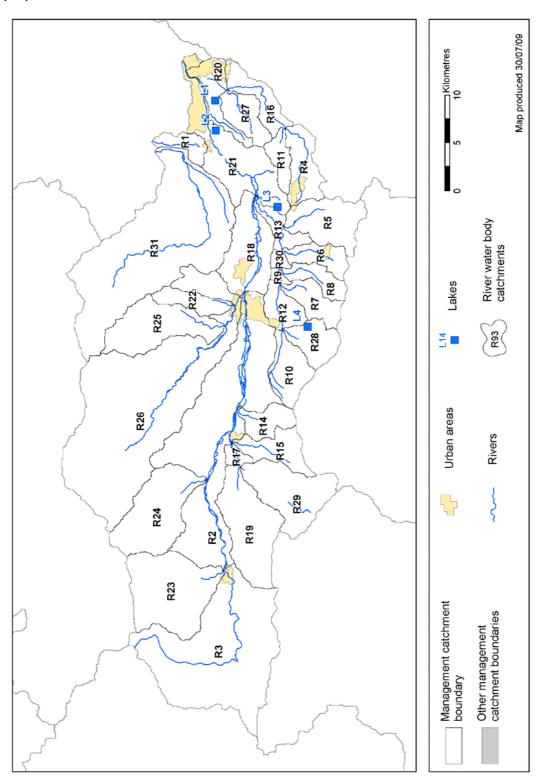
Rivers and Lakes

There are 31 river water bodies (of which 4 are designated as heavily modified) and 4 lake water bodies (of which 3 are designated as artificial and 1 as heavily modified) within the Kennet and Pang river catchments.

Figure B.9.1 Status objectives for rivers and lakes in the Kennet and Pang river catchments

	Proposed status/potential objective				
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	11	11	27	16	27
Lakes	0	0	0	0	0
Heavily modified water bodies	0	0	5	5	5
Artificial water bodies	3	3	3	0	3

Figure B.9.2 River and lake water bodies in the Kennet and Pang river catchments Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Kennet and Pang catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Surveillance site: No Waterbody Category and Map Code.: River - R1

Waterbody ID and Name: GB106039023280 Sulham Brook

National Grid Reference: SU 64203 74616

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030331 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Invertebrates Moderate (Quite Certain) Moderate Disproportionately expensive

(HR4a), Technically infeasible

(B2p)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good) Ammonia (Phys-Chem) Good Good Dissolved Oxygen Good Good High pН High Phosphate High High Temperature High High Ammonia (Annex 8) Good Good

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Does not Support Good Quantity and Dynamics of Does not Support

Good (Quite Certain)

Supports Good Supports Good Disproportionately expensive

(HR4a)

Chemical Status

Flow

Morphology

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R2 Surveillance site: No

Waterbody ID and Name: GB106039023172 Middle Kennet (Marlborough to Newbury)

National Grid Reference: SU 30240 70573

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Navigation

Downstream Waterbody ID: GB106039017420

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

Predicted Status by certainty of less than 2015

Justification for not achieving

good)

good status by 2015

Moderate

Invertebrates

Fish

Zinc

High High

Moderate (Very Certain)

Not Required (MS)

Supporting elements

Current status (and Element certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate Good Good Temperature High High Arsenic High Copper High Iron High

High High

High High High

Supporting conditions

Ammonia (Annex 8)

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving good status by 2015

good)

High

Quantity and Dynamics of

Flow

Does not Support Good (Uncertain)

High

Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

Moderate

good status by 2015

Technically infeasible (M3g)

Mitigation Measures

Assessment

Mitigation Measures that have defined Ecological Potential

Moderate

Mitigation Measure	Status
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Bank rehabilitation / reprofiling	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Sediment management	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Manage disturbance	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Alter timing of dredging / disposal	In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

River - R3 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023171 Upper Kennet to Marlborough

National Grid Reference: SU 10312 68642

Current Overall Status Good

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023172

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Good Good Invertebrates

good)

Supporting elements

Element **Current status (and Predicted Status by** certainty of less than

2015

Justification for not achieving good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Phosphate Good High Temperature High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and**

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow Morphology Does not Support Good

(Uncertain) Supports Good Does not Support

Good

Supports Good

Disproportionately expensive

(HR2a)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R4 Surveillance site: No

Waterbody ID and Name: GB106039017190 Foudry Brook (Source to WestEnd Brook)

National Grid Reference: SU 62441 60721

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) **Status Objective (Overall):** Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017380

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element **Current status (and**

certainty of less than good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Moderate (Uncertain) Moderate

Disproportionately expensive

(B1a)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High pΗ High High Phosphate Good Good Temperature High High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) Good Good good status by 2015

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good

Supports Good

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

River - R5 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017200 **Baughurst Brook**

National Grid Reference: SU 56856 60653

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017340

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Invertebrates Good Good

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Predicted Status by Justification for not achieving Element Current status (and certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good

(Uncertain)

Supports Good Morphology

Supports Good

Supports Good

Chemical Status

Flow

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R6 Surveillance site: No

Waterbody ID and Name: Kingsclere Brook (Source to Enborne) GB106039017220

National Grid Reference: SU 53221 60789

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017340

Ecological Status

Current Status (and certainty

that status is less than good)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

Good

good)

Invertebrates Good Good

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

Supports Good

good)

Does not Support Good Quantity and Dynamics of

Flow (Quite Certain)

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R7 Surveillance site: No

Waterbody ID and Name: GB106039017230 Earlstone Stream and Burghclere Brook (source to

National Grid Reference: SU 49287 62165

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017270

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Certainty of less than 2015 Good status by 2015

Supports Good

good)

Quantity and Dynamics of Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R8 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017250 Ecchinswell Brook (source to Enborne)

National Grid Reference: SU 51213 61239

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017260

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Quantity and Dynamics of

Justification for not achieving **Element** Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good

Supports Good Flow Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R9 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039017270 Enborne (Burghclere Brook to Ecchinswell Brook)

National Grid Reference: SU 50700 63438

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017260

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate Moderate (Uncertain) Technically infeasible (B2p)

Good Invertebrates Good

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pН High High Phosphate Good Good Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R10 Surveillance site: No

Waterbody ID and Name: GB106039017280 Enborne (Source to downstream A34)

National Grid Reference: SU 42677 63660

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017310

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Quite Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Moderate (Quite Certain) Moderate Technically infeasible (B2p)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R11 Surveillance site: Yes

Waterbody ID and Name: GB106039017300 West End Brook (tributary of Foudry Brook)

National Grid Reference: SU 65257 63356

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017380

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain - WoE)

Biological elements

Fish

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015 good status by 2015

Good Moderate (Uncertain)

Moderate (Uncertain) Moderate Macrophytes Technically infeasible (B2a) Phytobenthos Moderate (Very Certain) Moderate Technically infeasible (B2a)

Supporting elements

Ammonia (Phys-Chem)

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

High High High High

Dissolved Oxygen pΗ High High Phosphate High High Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Current status (and Predicted Status by Justification for not achieving Element certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good

Flow

Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R12 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017310 Enborne (downstream A34 to Burghclere Brook)

National Grid Reference: SU 47251 63849

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017270

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R13

Waterbody ID and Name: GB106039017340 Lower Enborne

National Grid Reference: SU 56237 64201

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023140

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate Moderate (Quite Certain) Technically infeasible (B2p)

Good Invertebrates Good

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High

pН

High

High

Moderate (Very Certain) Moderate Disproportionately expensive

(P1a)

Temperature High High Copper High High Zinc High High

High

Ammonia (Annex 8)

Phosphate

High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

Supports Good

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good good status by 2015

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R14 Surveillance site: No

Waterbody ID and Name: GB106039017360 Inkpen Stream (source to Kennet)

National Grid Reference: SU 36050 67763

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023172

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

Disproportionately expensive

(HR2a)

good)

Quantity and Dynamics of Does not Support Good Does not Support Flow (Uncertain) Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R15 Surveillance site: No

Waterbody ID and Name: GB106039017370 Shalbourne (source to Kennet at Hungerford)

National Grid Reference: SU 32699 65435

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023172

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Fish Moderate Moderate (Very Certain) Technically infeasible (B2a, B2j)

Good Invertebrates Good

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

pН

Phosphate

Temperature

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015

High

High

Good

High

High

good)

High

High

High

Good

High

High

good)

High

good status by 2015

Ammonia (Annex 8)

Supporting conditions

Element **Current status (and**

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R16 Surveillance site: No

Waterbody ID and Name: GB106039017380 Foudry Brook (West End Brook to M4)

National Grid Reference: SU 69498 65604

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023120

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by**

certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Fish Good Good Good Good Invertebrates

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High pН High

Phosphate

Poor (Very Certain)

High

Poor

Disproportionately expensive

(P1a)

Temperature High High Good Ammonia (Annex 8) Good

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Supports Good Supports Good Morphology

Chemical Status

Current Status (and certainty Fail (Quite Certain)

that status is less than good)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Pentachlorophenol	High	High	
Tributyltin Compounds	Moderate (Quite Certain)	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Surveillance site: No Waterbody Category and Map Code.: River - R17

Waterbody ID and Name: GB106039017390 Kennet and Avon Canal and Dun above Hungerford

National Grid Reference: SU 31936 68187

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023172

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Fish Good Moderate (Uncertain)

good)

Supporting elements

Element **Current status (and**

certainty of less than

Predicted Status by 2015

High

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) Dissolved Oxygen pΗ

Phosphate

Copper

Zinc

Temperature

High High High Good

High

High

good)

High High Good High High

High High

High High

Supporting conditions

Ammonia (Annex 8)

Element **Current status (and**

certainty of less than

Supports Good

Predicted Status by 2015

Justification for not achieving good status by 2015

good)

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

confluence)

Waterbody Category and Map Code.: River - R18 Surveillance site: No

Waterbody ID and Name: GB106039017420 Kennet (Lambourn confluence to Enborne

National Grid Reference: SU 57644 66528

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Navigation

Downstream Waterbody ID: GB106039023140

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Fish Moderate (Uncertain)

Invertebrates Good Moderate Good

Not Required (MS)

Supporting elements

Element	current status (and certainty of less than good)	2015	good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Supports Good

good)

Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3g)

Environment Agency, Annex B Thames River Basin District, December 2009

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Bank rehabilitation / reprofiling	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Sediment management	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Manage disturbance	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Alter timing of dredging / disposal	In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Hexachlorocyclohexane	High	High	
Pentachlorophenol	High	High	

Waterbody Category and Map Code.: River - R19 Surveillance site: No

Waterbody ID and Name: GB106039017430 Froxfield Stream

National Grid Reference: SU 29447 67947

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017390

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

Invertebrates Good Good

2015 good status by 2015

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High
pH High High

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive

(P1a)

Temperature High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Aorabalagu Supporta Cood

Cupports Cood Cupports Cood

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R20 Surveillance site: No

Waterbody ID and Name: GB106039023120 Kennet and Foudry Brook and Clayhill Brook in

National Grid Reference: SU 66136 69014

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation

Downstream Waterbody ID: GB106039023140

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

> certainty of less than 2015 good status by 2015

good)

Fish Moderate Moderate (Quite Certain) Not Required (MS) Moderate (Very Certain) Moderate Invertebrates Not Required (MS)

Supporting elements

Ammonia (Phys-Chem)

Predicted Status by Element Current status (and Justification for not achieving 2015 good status by 2015

certainty of less than good)

High High

Dissolved Oxygen High High

pН High High

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive (P1b)

Temperature High High

Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status

Predicted Status by

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Moderate Moderate

Technically infeasible (M3a)

Mitigation Measures that have defined Ecological Potential

 Mitigation Measure
 Status

 Retain marginal aquatic and riparian habitats (channel alteration)
 Not In Place

 Increase in-channel morphological diversity
 Not In Place

2015

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element Current status (and certainty of less than good)

Current status (and predicted Status by certainty of less than good)

Justification for not achieving good status by 2015

Lead And Its Compounds High High
Nickel And Its Compounds High High

Surveillance site: No Waterbody Category and Map Code.: River - R21

Waterbody ID and Name: GB106039023140 Kennet and Holy Brook

National Grid Reference: SU 58749 65638

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Navigation

Downstream Waterbody ID: GB106039023233

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving certainty of less than 2015

good) Good

Good

Good

Good

good status by 2015

Supporting elements

Fish

Invertebrates

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate Good Good Temperature High High Arsenic High High Copper High High Iron High High Permethrin High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by certainty of less than 2015

good)

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Justification for not achieving good status by 2015

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3g)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Bank rehabilitation / reprofiling	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Sediment management	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Manage disturbance	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Alter timing of dredging / disposal	In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Tributyltin Compounds	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R22 Surveillance site: Yes

Waterbody ID and Name: GB106039023150 Lambourn tributary (North of Newbury)

National Grid Reference: SU 47697 69459

Moderate **Current Overall Status** Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Not Designated

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023220

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Invertebrates High High

Macrophytes Moderate (Uncertain) Moderate Disproportionately expensive

(B1a)

Supporting elements

Dissolved Oxygen

рΗ

Phosphate

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

High

High

High

High

good) Ammonia (Phys-Chem)

High High High High

High Temperature High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R23 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023180 Og

National Grid Reference: SU 18860 70520

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023172

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element Current status (and Predicted Status by

certainty of less than

good)

Invertebrates Good

2015

Justification for not achieving

good status by 2015

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

Good

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Phosphate High High Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Predicted Status by Justification for not achieving Element Current status (and certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good

(Quite Certain) Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R24 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023200 Aldbourne

National Grid Reference: SU 28824 72690

Good **Current Overall Status**

Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023172

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Current status (and Element

Predicted Status by certainty of less than

2015

Justification for not achieving

good status by 2015

Invertebrates Good Good

good)

Supporting elements

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R25 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023210 Winterbourne

National Grid Reference: SU 45626 71704

Good **Current Overall Status**

Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023220

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element Current status (and Predicted Status by Justification for not achieving 2015 good status by 2015

certainty of less than

good)

High

Invertebrates High

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Predicted Status by Justification for not achieving Element Current status (and certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Supports Good Supports Good Morphology

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Surveillance site: Yes Waterbody Category and Map Code.: River - R26

Waterbody ID and Name: GB106039023220 Lambourn (Source to Newbury)

National Grid Reference: SU 35058 77015

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Natura 2000 (Habitats and/or Birds Directive),

Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017420

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Fish Moderate (Quite Certain) Good Invertebrates High High Macrophytes Moderate (Uncertain) Good

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

High High High High

pΗ High High Phosphate High High Temperature High High Arsenic High High Copper High High High

Iron High Zinc High High

Ammonia (Annex 8)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good

High

High

Supports Good

Quantity and Dynamics of Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

Surveillance site: No Waterbody Category and Map Code.: River - R27

Waterbody ID and Name: GB106039017410 **Burghfield Brook**

National Grid Reference: SU 66747 66702

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039023120 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than good status by 2015

good)

Moderate Invertebrates Moderate (Quite Certain) Technically infeasible (B2a)

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Moderate (Very Certain) Moderate Phosphate Disproportionately expensive (P1a)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Current status (and Predicted Status by Justification for not achieving **Element** certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Supports Good Morphology Supports Good

Chemical Status

Current Status (and certainty

that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Pentachlorophenol	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R28 Surveillance site: Yes

Waterbody ID and Name: GB106039017210 Hollingtonstand Milford Lake (source to Enborne)

National Grid Reference: SU 44327 62578

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017310

Ecological Status

Current Status (and certainty that status is less than good)

Good (Uncertain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015

good)

Macrophytes Good Good

good status by 2015

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Phosphate High High Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R29 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017350 Upper Dun

National Grid Reference: SU 26085 61577

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

good)

Supports Good

Reason for Designation:

Downstream Waterbody ID: GB106039017390

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by**

certainty of less than

good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R30 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017260 Enborne (Ecchinswell Brook to Kingsclere Brook)

National Grid Reference: SU 52456 63864

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017340

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate Moderate (Quite Certain) Technically infeasible (B2p)

High Invertebrates High

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pН High High Phosphate Good Good Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Morphology

Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R31

Waterbody ID and Name: GB106039023300 Pang

National Grid Reference: SU 53197 77442

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030331 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Poor (Uncertain - WoE)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Moderate (Uncertain) Invertebrates High High

Phytobenthos Poor (Very Certain) Poor Technically infeasible (B2a)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Phosphate Good Temperature High High Copper High High

High High

Ammonia (Annex 8) High High good status by 2015

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving 2015 certainty of less than good status by 2015

Supports Good

good)

Quantity and Dynamics of

Flow

Zinc

Morphology Supports Good

Does not Support Good Does not Support Good (Quite Certain)

Disproportionately expensive

(HR4a)

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L1 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30642611 Farnham Flint or Englefield Lagoon

National Grid Reference: SU 68925 70418

Current Overall Potential Good

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Artificial **Hydromorphological Designation:**

Reason for Designation: Flood Protection, Recreation, Urbanisation

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Good

Biological elements

Element Current status (and Predicted Status by

certainty of less than

good)

Good

Good Good Justification for not achieving

good status by 2015

Supporting elements

Macrophytes

Phytoplankton

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

2015

Good

good status by 2015

Dissolved Oxygen Good Good **Total Phosphorus** High High Copper High High Zinc High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Predicted Status by Justification for not achieving Element **Current status**

> 2015 good status by 2015

Mitigation Measures

Assessment

Good

Good

Environment Agency, Annex B Thames River Basin District, December 2009

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L2 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30642622 Ameys Lake or Theale Lakes

National Grid Reference: SU 65740 70352

Current Overall Potential Good

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Artificial

Reason for Designation: Flood Protection, Recreation

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Good

Biological elements

Current status (and Element

certainty of less than good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Good Phytoplankton Good

Supporting elements

Current status (and Element

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Total Phosphorus Good Good High Copper High Zinc High High

Supporting conditions

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status **Predicted Status by**

2015

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Good

Good

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L3 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30643001 unnamed

National Grid Reference: SU 57776 63908

Current Overall Potential Good

Status Objective (Overall): Good by 2015

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good Quantity and Dynamics of Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015

Good

good status by 2015

Good Mitigation Measures

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Lake - L4 Surveillance site: No

Waterbody ID and Name: GB30643126 Milford Lake

National Grid Reference: SU 45215 60750

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

good status by 2015

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015

good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M1g)

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

B.10 Loddon river catchment

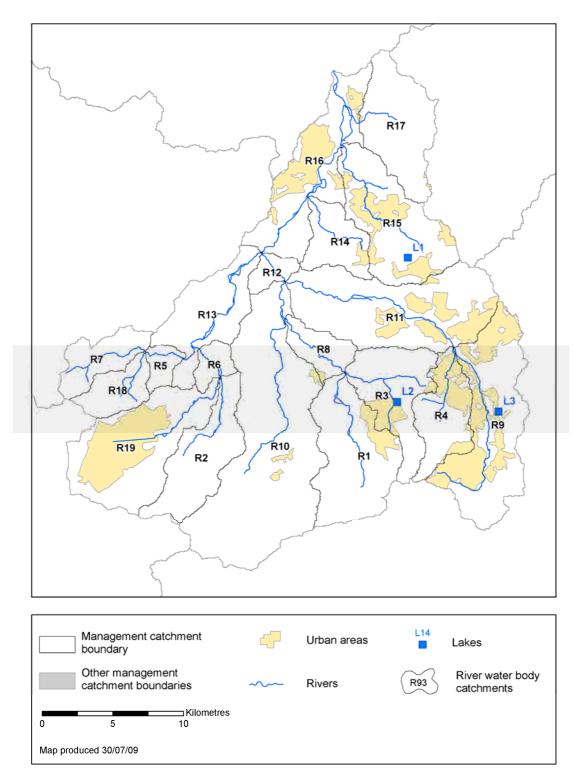
Rivers and Lakes

There are 19 river water bodies (of which 7 are designated as heavily modified) and 3 lake water bodies (of which 1 is designates as artificial and 1 as heavily modified) within the Loddon river catchment.

Figure B.10.1 Status objectives for rivers and lakes in the Loddon river catchment

	Proposed status/potential objective				
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	1	1	12	11	12
Lakes	0	0	1	1	1
Heavily modified water bodies	0	0	8	8	8
Artificial water bodies	1	1	1	0	1

Figure B.10.2 River and lake water bodies in the Loddon river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Loddon catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Waterbody Category and Map Code.: River - R1 Surveillance site: Yes

Waterbody ID and Name: GB106039017090 Hart (Crondall to Elvetham)

National Grid Reference: SU 79688 51132

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017170

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Poor	Disproportionately expensive (HR2a, M5a)
Invertebrates	Good	Good	,
Phytobenthos	Poor (Very Certain)	Moderate	Disproportionately expensive (P1d)

Supporting elements

Element	current status (and certainty of less than good)	2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
pН	High	High	
Phosphate	Moderate (Very Certain)	Good	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of	Does not Support Good	Does not Support	Disproportionately expensive
Flow	(Uncertain)	Good	(HR2a)
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

River - R2 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017100 Lyde

National Grid Reference: SU 69724 55939

Current Overall Status Good

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017150

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Current status (and Element

certainty of less than 2015

Predicted Status by Justification for not achieving

good status by 2015

good)

Invertebrates High High

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Phosphate High High High Temperature High Copper High High Zinc High

good)

High Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Supports Good

Flow Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R3 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017120 Fleet Brook

National Grid Reference: SU 81905 54814

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039017170

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element	Current status (and	Predicted Status by	Justification for not achieving
	cortainty of lose than	2015	good status by 2015

good)

good status by 2015

Fish Poor (Very Certain) Moderate

Not Required (MS), Technically infeasible (S3d)

Invertebrates Moderate (Quite Certain)

Not Required (MS), Technically Moderate

infeasible (S3d)

Supporting elements

Element	Current status (and	Predicted Status by	Justification for not achieving
	certainty of less than	2015	good status by 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen Good Good pΗ High High

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive

Temperature High High Arsenic High High Copper High High Iron High High Zinc High High Good Ammonia (Annex 8) Good

(P1a)

Supporting conditions

Element **Current status (and Predicted Status by**

> certainty of less than good)

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Technically infeasible (M3a, M3b)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-engineering of the river where the flow regime cannot be modified.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Surveillance site: No Waterbody Category and Map Code.: River - R4

Waterbody ID and Name: GB106039017130 Cove Brook

National Grid Reference: SU 85676 56887

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106039017290

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Poor Poor (Very Certain) Not Required (MS) Poor (Very Certain) Poor Invertebrates Not Required (MS)

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving good status by 2015

certainty of less than 2015

good)

High

Ammonia (Phys-Chem) High Dissolved Oxygen Good Good

pН High High Phosphate High High Temperature High High Arsenic High High

Copper High High Moderate (Very Certain) Moderate Iron

Zinc High High Ammonia (Annex 8) High High

Supports Good

Supporting conditions

Current status (and **Predicted Status by** Justification for not achieving Element

certainty of less than

good)

2015

good status by 2015

Technically infeasible (C2a)

Quantity and Dynamics of

Flow

Environment Agency, Annex B Thames River Basin District, December 2009

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Increase in-channel morphological diversity	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

RBD: 6 Catchment: Loddon

River - R5 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Bow Brook (Pamber End to Sherfield Green) GB106039017140

National Grid Reference: SU 65671 58209

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment **Protected Area Designation:**

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017330

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1c)
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R6 Surveillance site: No

Waterbody ID and Name: GB106039017150 Loddon (Hartley Wespall to Sherfield on Loddon)

National Grid Reference: SU 68770 57825

Current Overall Potential Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Other

Downstream Waterbody ID: GB106039017330

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Uncertain - WoE)

Biological elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Phytobenthos Poor (Very Certain) Moderate

Supporting elements

Element Current status (and

certainty of less than

good)

2015

Predicted Status by

Justification for not achieving

good status by 2015

High Ammonia (Phys-Chem) High Dissolved Oxygen High High

Moderate (Uncertain) Phosphate

Moderate

Disproportionately expensive

(P1a)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Does not Support Good

(Uncertain)

Supports Good

Ecological Potential Assessment

Element **Current status** **Predicted Status by**

2015

Justification for not achieving good status by 2015

Mitigation Measures Moderate

Assessment

Moderate

Disproportionately expensive

(M2d)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.

Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R7 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039017160 Bow Brook (Pamber End to Bramley)

National Grid Reference: SU 62277 58253

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039017140 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element Current status (and

certainty of less than

good)

Predicted Status by Justification for not achieving 2015

good status by 2015

Fish Good Good

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

High Ammonia (Phys-Chem) High Dissolved Oxygen High High pΗ High High

Moderate (Uncertain) Moderate Phosphate

High

Temperature

Good Good Disproportionately expensive

(P1a)

Supporting conditions

Ammonia (Annex 8)

Current status (and Element

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

High

Supports Good Morphology Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R8 Surveillance site: No Waterbody Category and Map Code.:

Hart (Elvetham to Hartley Wintney) Waterbody ID and Name: GB106039017170

National Grid Reference: SU 76259 58906

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017240

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Good Good

good)

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Moderate (Very Certain) Moderate Phosphate

High Temperature High Copper High High Zinc High High Ammonia (Annex 8) High High good status by 2015

Disproportionately expensive

(P1b)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

good)

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R9 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039017180 Blackwater (Aldershot to Cove Brook confluence at

National Grid Reference: SU 87880 48696

(For Protected Area Objectives see Annex D)

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Current Overall Potential

Status Objective (Overall):

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

Moderate

Good by 2027

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

GB106039017290 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

Disproportionately expensive

(P1c)

good status by 2015

Fish Poor Poor (Very Certain) Not Required (MS) Invertebrates Moderate (Uncertain) Moderate Not Required (MS)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Good	Good	
Dissolved Oxygen	Good	Good	

pН High High Phosphate Poor (Very Certain) Poor Temperature High High Arsenic High High Copper High High

High

Zinc High High Ammonia (Annex 8) Good Good

High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of

Flow

Iron

Supports Good Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by 2015

Justification for not achieving good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Increase in-channel morphological diversity	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

River - R10 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017240 Whitewater

National Grid Reference: SU 73683 55204

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039017320 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Fish

Element Current status (and Predicted Status by Justification for not achieving 2015 good status by 2015

Moderate

certainty of less than

Moderate (Uncertain)

good)

Disproportionately expensive (B1a), Technically infeasible

(B2p)

Invertebrates High High

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High Phosphate High High Temperature Good Good Copper High High Zinc High High High Ammonia (Annex 8) High

Supporting conditions

Current status (and Predicted Status by Justification for not achieving Element

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

RBD: 6

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R11 Surveillance site: No

Waterbody ID and Name: GB106039017290 Blackwater (Hawley to Whitewater confluence at Bramshill)

National Grid Reference: SU 82621 61081

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017320

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

High Fish High Invertebrates Good Good

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High pН High High

Phosphate

Moderate (Very Certain) Moderate

Disproportionately expensive

(P1c)

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) Good Good

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Supports Good

Quantity and Dynamics of

Flow

Supports Good Morphology

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R12 Surveillance site: No

Waterbody ID and Name: GB106039017320 Blackwater (Bramshill to River Loddon confluence

at Swallowfield) **National Grid Reference:** SU 73298 64526

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023160

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Fish

Element Current status (and **Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

Moderate (Quite Certain)

good)

Moderate Disproportionately expensive

(M5a), Technically infeasible

(B2p)

Invertebrates Good Good

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High Moderate (Uncertain) Good Phosphate Temperature High High Arsenic High High

Copper High High Iron High High Zinc High High

High

Ammonia (Annex 8)

Supporting conditions

Current status (and Element

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

High

Environment Agency, Annex B Thames River Basin District, December 2009

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R13 Surveillance site: No

Waterbody ID and Name: GB106039017330 Loddon (Sherfield on Loddon to Swallowfield)

National Grid Reference: SU 70820 63961

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023160

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Fish

Element Current status (and **Predicted Status by** Justification for not achieving 2015 good status by 2015

Moderate

certainty of less than

Moderate (Quite Certain)

good)

Disproportionately expensive (M5a), Technically infeasible

(B2a)

Invertebrates High High

Poor Phytobenthos Poor (Very Certain) Disproportionately expensive

(P1c)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

High

High

High

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High

рΗ High

> Moderate (Very Certain) Moderate

Disproportionately expensive

(P1c)

Phosphate Good Good

Copper High Zinc High

Ammonia (Annex 8) High High

Supporting conditions

Temperature

Predicted Status by Justification for not achieving Element Current status (and certainty of less than 2015 good status by 2015

Supports Good

good)

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Environment Agency, Annex B Thames River Basin District, December 2009

Chemical Status

Current Status (and certainty that status is less than good)

River - R14 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017400 Barkham Brook

National Grid Reference: SU 77856 66608

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023160

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Good

Supporting elements

Element Current status (and

certainty of less than

Predicted Status by 2015

Good

Justification for not achieving

good status by 2015

good) Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High pΗ High High

good)

Phosphate

Poor

Poor (Very Certain)

Disproportionately expensive

(P1b)

High Temperature High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and

certainty of less than

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

good)

Supports Good

Predicted Status by

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Waterbody Category and Map Code.: River - R15 Surveillance site: No

Waterbody ID and Name: GB106039023130 Emm Brook

National Grid Reference: SU 82480 67038

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Urbanisation

Downstream Waterbody ID: GB106039023160

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Good Invertebrates Good

Supporting elements

Dissolved Oxygen

pΗ

Zinc

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Good

High

High High

High

Good

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem)

Moderate (Uncertain)

High High

High

Poor (Very Certain) Phosphate

Poor

Temperature High Copper High High

Ammonia (Annex 8)

Moderate (Uncertain)

Disproportionately expensive

(P1b)

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status **Predicted Status by**

2015

Justification for not achieving good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3b)

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Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Preserve and, where possible, restore historic aquatic habitats	In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-engineering of the river where the flow regime cannot be modified.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R16 Surveillance site: No

Waterbody ID and Name: GB106039023160 Loddon (Swallowfield to River Thames confluence)

National Grid Reference: SU 77347 71890

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023233

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Very Certain)

Biological elements

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Fish Moderate (Very Certain) Good Invertebrates High High

good)

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High
PH High High

Phosphate Moderate (Very Certain) N

High Moderat

Moderate

Disproportionately expensive

(P1b)

Temperature High High Arsenic High High Copper High High Iron High High Permethrin High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

good)

0.....

Predicted Status by 2015

Justification for not achieving good status by 2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Uncertain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Tributyltin Compounds	Moderate (Uncertain)	Moderate	Technically infeasible (C2a)
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

(P1a)

Disproportionately expensive

Waterbody Category and Map Code.: River - R17 Surveillance site: No

Waterbody ID and Name: GB106039023190 Twyford Brook

National Grid Reference: SU 79916 75346

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023160

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High
PH High High

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive

Temperature High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Flow (Uncertain) Good

Flow (Uncertain) Good (HR2a) Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R18 Surveillance site: No

Waterbody ID and Name: GB106039017110 Vyne Stream

National Grid Reference: SU 63087 55828

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Recreation, Wider Environment

Downstream Waterbody ID: GB106039017140

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates High High

good)

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Phosphate

Poor (Very Certain)

Poor

Disproportionately expensive

(P1a)

Temperature High High High Copper High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status **Predicted Status by** 2015

Justification for not achieving good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Disproportionately expensive (M2c)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.

Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R19 Surveillance site: No

Waterbody ID and Name: GB106039017080 Loddon (Basingstoke to River Lyde confluence at

National Grid Reference: SU 69278 55916

Hartley Wespall)

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Other, Urbanisation

Downstream Waterbody ID: GB106039017150

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Uncertain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Uncertain)	Poor	Disproportionately expensive (HR2a)
Invertebrates	High	High	,
Phytobenthos	Poor (Very Certain)	Poor	Technically infeasible (B2a, B2r)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Does not Support Good (Uncertain)	Does not Support Good	Disproportionately expensive (HR2a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Disproportionately expensive (M2d), Technically infeasible (M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-engineering of the river where the flow regime cannot be modified.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Loddon

Lake - L1 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30642945 Heath Lake

National Grid Reference: SU 82899 65252

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by**

certainty of less than

good)

Supports Good

good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L2 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30643315 Fleet Pond

National Grid Reference: SU 82129 54994

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015

good status by 2015

Moderate Moderate Mitigation Measures Technically infeasible (M1g)

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Lake - L3 Surveillance site: No

Waterbody ID and Name: GB30643339 Mytchett Lake

National Grid Reference: SU 89352 54312

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

B.11 London river catchment

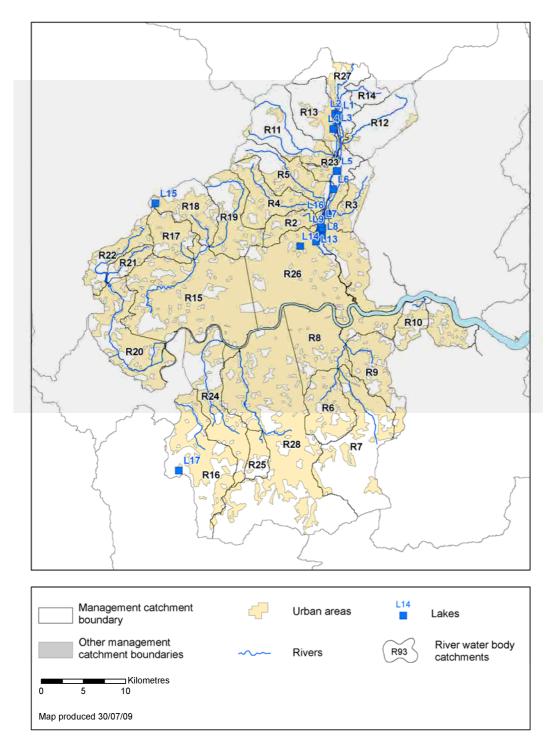
Rivers and Lakes

There are 28 river water bodies (of which 24 are designated as heavily modified) and 17 lake water bodies (of which 15 are designated as artificial and 2 as heavily modified) within the London river catchment.

Figure B.11.1 Status objectives for rivers and lakes in the London river catchment

	•	Proposed status/potential objective			
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	1	1	4	3	4
Lakes	0	0	0	0	0
Heavily modified water bodies	1	1	26	25	26
Artificial water bodies	7	7	15	8	15

Figure B.11.2 River and lake water bodies in the London river catchment Note: This map includes some SSSI ditches, surface water transfers and canals where appropriate, however some have not been include to aid clarity. Details of these can be found in Figure B.24.1



[©] Environment Agency copyright and / or database right 2009. All rights reserved. This map includes data supplied under licence from: © Crown Copyright and database right 2009. All rights reserved. Ordnance Survey licence number 100026380. Some river features of this map are based on digital spatial data licensed from the Centre for Ecology and Hydrology, © CEH. Licence number 198 version 2

Water body tables for rivers and lakes in the London catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Part of Lee Navigation B)

Waterbody Category and Map Code.: River - R1 Surveillance site: No

Waterbody ID and Name: GB106038027910 Pymmes Brook (Salmons Brook to Lee, includes

National Grid Reference: TQ 35286 91081

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified
Reason for Designation: Urbanisation

Downstream Waterbody ID: GB106038077851

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1c)
Temperature	Good	Good	,
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate

Assessment

Moderate

Technically infeasible (M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R2

Waterbody ID and Name: GB106038027920 Moselle Brook

National Grid Reference: TQ 33922 90850

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive, Urban Waste Water Treatment Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106038077851

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015 good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High Phosphate Poor (Uncertain) Poor

Disproportionately expensive (P1a)

Good Temperature Good Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of Supports Good Supports Good

Flow

Assessment

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3b)

Mitigation Measure	Status
Appropriate timing (vegetation control)	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Appropriate vegetation control technique	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate techniques (invasive species)	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Selective vegetation control regime	In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R3 Surveillance site: No

Waterbody ID and Name: GB106038027930 Ching Brook

National Grid Reference: TQ 39225 92037

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified
Reason for Designation: Urbanisation

Downstream Waterbody ID: GB106038077851

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Invertebrates	Poor (Very Certain)	Poor	Not Required (MS)
Phytobenthos	Poor (Very Certain)	Poor	Technically infeasible (B2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Good	Good	
Dissolved Oxygen	Moderate (Quite Certain)	Moderate	Disproportionately expensive (DO1a)
рН	High	High	•
Phosphate	Bad (Very Certain)	Bad	Disproportionately expensive (P1a)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	Good	Good	

Supporting conditions

Element Current status (and Predicted Status by certainty of less than good)

Current status (and Predicted Status by Justification for not achieving good status by 2015

Quantity and Dynamics of

Flow

Supports Good Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3b)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Selective vegetation control regime	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Remove obsolete structure	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Quite Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzo (a) and (k) fluoranthene	Moderate (Uncertain)	Moderate	Technically infeasible (C2a)
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Moderate (Quite Certain)	Moderate	Technically infeasible (C2a)
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Tributyltin Compounds	Moderate (Quite Certain)	Moderate	Technically infeasible (C2a)
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
DDT Total	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R4 Surveillance site: No

Waterbody ID and Name: GB106038027940 Pymmes Brook (upper channel with Muswell St &

Bounds Grn Brk)

National Grid Reference: TQ 30649 92283

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106038027910

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015 good status by 2015

Bad Invertebrates Bad (Very Certain) Not Required (MS)

Supporting elements

Current status (and Predicted Status by Justification for not achieving Element

certainty of less than

good)

2015 good status by 2015

Ammonia (Phys-Chem) Moderate (Very Certain) Moderate Technically infeasible (A3b)

Dissolved Oxygen Moderate (Quite Certain) Moderate

Disproportionately expensive

(DO1a)

High pΗ High

Phosphate Poor (Very Certain) Poor

Disproportionately expensive

(P1b)

Temperature High High

Ammonia (Annex 8) Moderate (Very Certain) Moderate Technically infeasible (A3b)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Supports Good Supports Good

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving 2015 good status by 2015

Moderate Moderate Technically infeasible (M3a, M3b)

Mitigation Measures

Assessment

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Selective vegetation control regime	In Place
Appropriate timing (vegetation control)	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Appropriate channel maintenance strategies and techniques - woody debris	
Appropriate water level management strategies, including timing and volume of water moved	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate vegetation control technique	In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Set-back embankments	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Improve floodplain connectivity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Remove obsolete structure	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R5 Surveillance site: Yes

Waterbody ID and Name: GB106038027960 Salmons Brook

National Grid Reference: TQ 31563 96139

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates

Directive, Urban Waste Water Treatment Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation, Urbanisation

Downstream Waterbody ID: GB106038027910

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Uncertain)	Moderate	Not Required (MS)
Invertebrates	Moderate (Very Certain)	Moderate	Not Required (MS)
Macrophytes	Moderate (Quite Certain)	Moderate	Not Required (MS)
Phytobenthos	Poor (Very Certain)	Poor	Technically infeasible (B2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Poor (Quite Certain)	Moderate	Disproportionately expensive (DO1a)
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)
Temperature	High	High	,
2,4-dichlorophenol	High	High	
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	High	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Permethrin	High	High	
Toluene	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and certainty of less than good)

Current status (and certainty of less than good)

Predicted Status by Justification for not achieving good status by 2015

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3b)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzene	High	High	
Diuron	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Tributyltin Compounds	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
DDT Total	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Surveillance site: No Waterbody Category and Map Code.: River - R6

Waterbody ID and Name: GB106039023250 Pool River

National Grid Reference: TQ 36676 70906

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023270

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015 good status by 2015

Fish Poor Poor (Quite Certain) Not Required (MS) Moderate (Quite Certain) Moderate Not Required (MS) Invertebrates

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Supports Good Supports Good

Ecological Potential Assessment

Predicted Status by Justification for not achieving Element **Current status**

2015 good status by 2015

Mitigation Measures

Assessment

Moderate Moderate Technically infeasible (M3a, M3b)

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R7 Surveillance site: No

Waterbody ID and Name: GB106039023260 Ravensbourne (Keston to Catford)

National Grid Reference: TQ 40017 68909

Poor **Current Overall Potential**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023270

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015 good status by 2015

Fish Poor (Very Certain) Poor Disproportionately expensive

(HR2a)

Invertebrates Moderate Disproportionately expensive Moderate (Quite Certain)

(HR2a)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High High High pН Phosphate Good Good Temperature High High Ammonia (Annex 8) High High

good status by 2015

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

Flow Good (Uncertain) (HR2a)

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3b)

Assessment

Mitigation Measure	Status
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Remove obsolete structure	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R8 Surveillance site: Yes

Waterbody ID and Name: <u>GB106039023270</u> Ravensbourne (Catford to Deptford)

National Grid Reference: TQ 38015 75217

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Poor	Disproportionately expensive (HR2a)
Invertebrates	Moderate (Quite Certain)	Moderate	Disproportionately expensive (HR2a)
Macrophytes	Moderate (Very Certain)	Moderate	Disproportionately expensive (HR2a)
Phytobenthos	Poor (Very Certain)	Poor	Technically infeasible (P2b)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	Moderate (Uncertain)	Moderate	Disproportionately expensive (PH1a)
Phosphate	Poor (Very Certain)	Poor	Technically infeasible (P2b)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and certainty of less than good)

Quantity and Dynamics of Flow Does not Support Good (Uncertain)

Predicted Status by 2015 good status by 2015

Does not Support Good (Uncertain)

Does not Support Good (HR2a)

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Assessment Moderate Predicted Status by 2015

Moderate Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Remove obsolete structure	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Very Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Diuron	Moderate (Very Certain)	High	
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

Waterbody Category and Map Code.: River - R9 Surveillance site: No

Waterbody ID and Name: GB106039023290 Quaggy

National Grid Reference: TQ 39970 75176

Current Overall Potential Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023270

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Poor (Very Certain) Poor Disproportionately expensive

(HR4a)

Invertebrates Poor (Very Certain) Moderate Disproportionately expensive

(HR4a)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive Flow (Quite Certain) Good (HR4a)

(Cano Contain)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3b)

Assessment

Mitigation Measure	Status
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Remove obsolete structure	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R10

Waterbody ID and Name: GB106039023500 Marsh Dykes (Woolwich)

National Grid Reference: TQ 47074 80519

Current Overall Potential Moderate Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good Quantity and Dynamics of Supports Good

Flow

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving

2015

good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3a, M3b)

Mitigation Measure	Status
Appropriate water level management strategies, including timing and volume of water moved	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R11 Surveillance site: No

Waterbody ID and Name: GB106038033180 Cuffley Brook and Turkey Brook

National Grid Reference: TL 31053 02996

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038027950

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate Moderate (Quite Certain) Technically infeasible (B2a, INNS2a)

Invertebrates Good Good

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

рΗ

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

High High Good Good High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

(P1a)

Temperature High High High Copper High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

Supports Good

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R12

Waterbody ID and Name: GB106038033190 Cobbins Brook

National Grid Reference: TL 41988 02659

Current Overall Status Bad

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106038077851 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Bad (Very Certain)

Biological elements

Current status (and Element

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Moderate Invertebrates Bad (Very Certain) Technically infeasible (B2a)

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Poor (Very Certain) Poor Phosphate

Temperature High Copper Moderate (Quite Certain) High Zinc High High

Ammonia (Annex 8) High good status by 2015

Disproportionately expensive

(P1a)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

High

certainty of less than

good)

Supports Good

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R13

Waterbody ID and Name: GB106038033200 Small River Lee (and tributaries)

National Grid Reference: TL 36978 01253

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Natura 2000 (Habitats and/or Birds Directive),

Nitrates Directive, Urban Waste Water Treatment Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038027950

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good Invertebrates Good Good

Supporting conditions

Element **Current status (and Predicted Status by**

certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Morphology

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R14 Surveillance site: No

Waterbody ID and Name: GB106038033210 Nazeing Brook

National Grid Reference: TL 38993 05978

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038077851

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good)

Moderate

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	Good	Good	,
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R15 Surveillance site: Yes

Waterbody ID and Name: GB106039023590 Brent (below Silk stream down to the Thames)

National Grid Reference: TQ 17432 82705

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Bathing Water Directive, Freshwater Fish Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation, Urbanisation, Water Storage - non-specific

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Poor	Not Required (MS)
Invertebrates	Bad (Very Certain)	Bad	Not Required (MS)
Macrophytes	Poor (Very Certain)	Poor	Not Required (MS)
Phytobenthos	Poor (Very Certain)	Poor	Technically infeasible (B2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Good	Good	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Technically infeasible (P2a)
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	Good	Good	

Ecological Potential Assessment

Element	Current status	Predicted Status by 2015	Justification for not achieving good status by 2015
Mitigation Measures Assessment	Moderate	Moderate	Technically infeasible (M3a, M3b, M3g)

Mitigation Measure	Status
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Bank rehabilitation / reprofiling	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Sediment management	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Manage disturbance	In Place
Ensure the rate and range of any artificial drawdown is appropriately managed to maintain aquatic plant and animal communities in the shore zones of water storage and supply with gently shelving shore zones.	In Place
Ensure the seasonal pattern of water levels during each year is managed so as to enable the establishment and retention of aquatic plant and animal communities in the shore zone of the impoundment.	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Alter timing of dredging / disposal	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Appropriate vegetation control technique	In Place
Ensure there is an appropriate baseline flow regime downstream of the impoundment.	In Place
Vessel Management	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Modify vessel design	Not In Place
Remove obsolete structure	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R16

Waterbody ID and Name: GB106039017440 Hogsmill

National Grid Reference: TQ 20557 66587

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106039023232

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate Poor (Very Certain) Not Required (MS) Poor (Very Certain) Moderate Invertebrates Not Required (MS)

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015

good)

good status by 2015

Ammonia (Phys-Chem) Moderate (Uncertain) Good Dissolved Oxygen High High

pН

Arsenic

Copper

Iron

Zinc

Flow

High

High

Poor

High

High

Good

Disproportionately expensive

(P1c)

Phosphate Poor (Very Certain) **Temperature** High

High High High

High High High

Ammonia (Annex 8) Moderate (Uncertain)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015

good)

High

Quantity and Dynamics of Supports Good Supports Good

good status by 2015

Environment Agency, Annex B Thames River Basin District, December 2009

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)
Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Remove obsolete structure	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Improve floodplain connectivity	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

Waterbody Category and Map Code.: River - R17 Surveillance site: No

Waterbody ID and Name: GB106039022940 Wealdstone Brook

National Grid Reference: TQ 18912 86510

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023590

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good
Dissolved Oxygen Good Good
pH High High

Phosphate Poor (Uncertain) Poor Disproportionately expensive

(P1a)

Temperature High High Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3b)

Mitigation Measur Assessment

Environment Agency, Annex B Thames River Basin District, December 2009

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate timing (vegetation control)	In Place
Selective vegetation control regime	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate vegetation control technique	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Remove obsolete structure	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R18 Surveillance site: No

Waterbody ID and Name: GB106039022970 Silk Stream and Edgware Brook

National Grid Reference: TQ 21497 89555

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation, Water Storage - non-specific

GB106039023590 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

Predicted Status by certainty of less than

2015

Justification for not achieving

good status by 2015

Fish Good Good

good)

Supporting elements

pΗ

Predicted Status by Element **Current status (and** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Technically infeasible (M3a, M3b)

(P1a)

Ammonia (Phys-Chem) Good Good

Dissolved Oxygen Moderate (Uncertain) Moderate Disproportionately expensive

(DO1a) High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

Temperature High High

Ammonia (Annex 8) Good Good

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving

2015 good status by 2015

Moderate Assessment

Moderate Mitigation Measures

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Selective vegetation control regime	In Place
Appropriate timing (vegetation control)	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Sediment management strategies (develop and revise)	
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate vegetation control technique	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Remove obsolete structure	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R19

Waterbody ID and Name: GB106039022980 **Dollis Brook**

National Grid Reference: TQ 24675 91284

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023590

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Supporting elements

Ammonia (Phys-Chem)

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good) Good

Good

Dissolved Oxygen Poor (Quite Certain) Poor Disproportionately expensive

(DO1a)

pН High High

Phosphate Poor (Very Certain)

Poor Disproportionately expensive (P1a)

Temperature High High

Good Ammonia (Annex 8) Good

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

qood)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Predicted Status by Current status Justification for not achieving 2015 good status by 2015

Moderate Moderate Mitigation Measures Technically infeasible (M3a, M3b)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Selective vegetation control regime	In Place
Appropriate timing (vegetation control)	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate vegetation control technique	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Remove obsolete structure	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R20 Surveillance site: Yes

Waterbody ID and Name: GB106039023030 Crane (including part of the Yeading Brook)

National Grid Reference: TQ 11093 75049

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified
Reason for Designation: Urbanisation

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Poor	Not Required (MS)
Invertebrates	Moderate (Very Certain)	Moderate	Not Required (MS)
Macrophytes	Moderate (Very Certain)	Moderate	Not Required (MS)
Phytobenthos	Poor (Very Certain)	Poor	Technically infeasible (B2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Good	Good	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Technically infeasible (P2b)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	Good	Good	

Supporting conditions

Element Current status (and certainty of less than good)

Quantity and Dynamics of Supports Good

Current status (and certainty of less than good)

Predicted Status by Justification for not achieving good status by 2015

Supports Good

Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3b)
Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Tributyltin Compounds	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

Waterbody Category and Map Code.: River - R21 Surveillance site: No

Waterbody ID and Name: GB106039023050 Yeading Brook (East Arm)

National Grid Reference: TQ 11747 85273

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023030

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Biological elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Invertebrates Poor (Very Certain) Poor Not Required (MS)

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status

Predicted Status by

2015

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R22 Surveillance site: No

Waterbody ID and Name: GB106039023060 Yeading Brook (west arm)

National Grid Reference: TQ 11726 86791

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023030

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Moderate (Uncertain) Moderate Not Required (MS) Poor Poor (Very Certain) Not Required (MS) Invertebrates

Supporting conditions

Element Current status (and Predicted Status by

certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Predicted Status by Justification for not achieving Element **Current status**

2015 good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R23 Surveillance site: No

Waterbody ID and Name: GB106038027950 Lee Navigation Subsiduary A

National Grid Reference: TQ 37240 97944

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates

Directive, Urban Waste Water Treatment Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation

Downstream Waterbody ID: GB106038077851

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving good status by 2015

2015

Moderate Moderate Mitigation Measures Technically infeasible (M3a) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Sediment management strategies (develop and revise)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Improve floodplain connectivity	Not In Place

RBD: 6

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R24 Surveillance site: Yes

Waterbody ID and Name: GB106039022850 Beverley Brook (Motspur Park to Thames) and Pyl

National Grid Reference: TQ 21433 73342 Brook at West Barnes

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Moderate	Disproportionately expensive (HR4a)
Invertebrates	Moderate (Quite Certain)	Moderate	Disproportionately expensive (HR4a)
Macrophytes	Poor (Very Certain)	Moderate	Disproportionately expensive (HR4a)
Phytobenthos	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1d)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Moderate (Very Certain)	Good	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Bad (Very Certain)	Poor	Disproportionately expensive (P1d)
Temperature	High	High	,
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	High	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Permethrin	High	High	
Toluene	High	High	
Zinc	High	High	
Ammonia (Annex 8)	Moderate (Very Certain)	Good	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Does not Support Good (Quite Certain)	Does not Support Good	Disproportionately expensive (HR4a)

Ecological Potential Assessment

Element	Current status	Predicted Status by 2015	Justification for not achieving good status by 2015
Mitigation Measures Assessment	Moderate	Moderate	Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Quite Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzene	High	High	
Diuron	Moderate (Quite Certain)	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Tributyltin Compounds	Moderate (Uncertain)	Moderate	Technically infeasible (C2a)
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
DDT Total	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R25 Surveillance site: No

Waterbody ID and Name: GB106039017640 Wandle (Carshalton Branch at Carshalton)

National Grid Reference: TQ 28053 64782

Current Overall Potential Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Urbanisation

GB106039023460 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015 good status by 2015

Fish Poor (Very Certain) Moderate Disproportionately expensive

Invertebrates Good Good (HR4a)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than good status by 2015 good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High Phosphate High High Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive (HR4a)

Flow (Quite Certain) Good

RBD: 6 Catchment: London

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3b) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Remove obsolete structure	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R26 Surveillance site: No

Waterbody ID and Name: GB106038077852 Lee (from Tottenham Locks to the Tideway)

National Grid Reference: TQ 34677 87773

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Bathing Water Directive, Freshwater Fish Directive, Natura 2000 (Habitats

and/or Birds Directive), Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Very Certain)

Biological elements

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Fish Poor (Very Certain) Poor Not Required (MS)

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) Moderate (Quite Certain) Moderate Disproportionately expensive

Dissolved Oxygen Poor (Very Certain) Poor

(A1a)

Disproportionately expensive (DO5a), Technically infeasible

(DO3b)

pН High High

Phosphate Bad (Very Certain) Poor

Disproportionately expensive

(P1c)

High Temperature High

Ammonia (Annex 8) Moderate (Quite Certain)

Moderate

Disproportionately expensive

(A1a)

Supporting conditions

Element Current status (and

certainty of less than good)

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status **Predicted Status by** 2015

Predicted Status by

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M1a, M1c)

Environment Agency, Annex B Thames River Basin District, December 2009

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Uncertain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	Moderate (Uncertain)	High	
Pentachlorophenol	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

RBD: 6 Catchment: London

Waterbody Category and Map Code.: River - R27 Surveillance site: Yes

Waterbody ID and Name: Lee (from Woolens Brook down to Tottenham GB106038077851

TQ 37077 94046 **National Grid Reference:**

Current Overall Potential Moderate (For Protected Area Objectives see Annex D) Good by 2027 Status Objective (Overall):

Good Ecological Potential by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Natura 2000

(Habitats and/or Birds Directive), Nitrates Directive, Urban Waste Water

Treatment Directive

SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Flood Protection **Reason for Designation:**

Downstream Waterbody ID: GB106038077852

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Good Fish Good

Invertebrates Poor (Quite Certain) Moderate Not Required (MS)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)
Temperature	Good	Good	,
2,4-dichlorophenol	High	High	
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	High	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Permethrin	High	High	
Toluene	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

RBD: 6 Catchment: London

Supporting conditions

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Supports Good

good)

Supports Good

Ecological Potential Assessment

Element Current status **Predicted Status by** 2015

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Moderate Moderate Technically infeasible (M1a)

Chemical Status

Current Status (and certainty that status is less than good) Fail (Quite Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzene	High	High	
Benzo (a) and (k) fluoranthene	Moderate (Quite Certain)	Moderate	Technically infeasible (C2a)
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Moderate (Quite Certain)	Moderate	Technically infeasible (C2a)
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Diuron	Moderate (Quite Certain)	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Tributyltin Compounds	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R28 Surveillance site: Yes

Waterbody ID and Name: GB106039023460 Wandle (Croydon to Wandsworth) and the River Graveney

National Grid Reference: TQ 29009 65265

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Poor	Not Required (MS)
Invertebrates	Moderate (Quite Certain)	Moderate	Not Required (MS)
Macrophytes	Moderate (Quite Certain)	Moderate	Not Required (MS)
Phytobenthos	Poor (Very Certain)	Poor	Disproportionately expensive (P1e)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Good	Good	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Bad (Very Certain)	Bad	Disproportionately expensive (P1e)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	Good	Good	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of	Supports Good	Supports Good	

Flow

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Moderate Technically infeasible (M3a, M3b)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Remove obsolete structure	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Lake - L1 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30641193 Seventy Acres

National Grid Reference: TL 37366 03134

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

No SSSI (Non-N2K) related:

Artificial **Hydromorphological Designation:**

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Current status (and Element

Predicted Status by certainty of less than 2015

Justification for not achieving

good)

good)

good)

Phytoplankton High High

Supporting elements

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

good status by 2015

Total Phosphorus

Bad (Very Certain)

Bad

Disproportionately expensive

(P1o)

Supporting conditions

Element Current status (and

Predicted Status by certainty of less than

2015

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element **Current status** **Predicted Status by**

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Good

Good

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L2 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30641198 North Metropolitan pit

National Grid Reference: TL 36970 03324

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Phytoplankton High High

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Poor **Total Phosphorus** Bad (Very Certain) Disproportionately expensive

(P1o)

Ecological Potential Assessment

Predicted Status by Element Current status Justification for not achieving 2015 good status by 2015

Mitigation Measures

Assessment

Good Good

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L3 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30641274 Cheshunt Lake

National Grid Reference: TL 37098 02496

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

No SSSI (Non-N2K) related:

Artificial **Hydromorphological Designation:**

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Phytoplankton High High

good)

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Total Phosphorus Bad (Very Certain) Bad Disproportionately expensive

(P1o)

Supporting conditions

Element Current status (and

certainty of less than good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element **Current status** **Predicted Status by**

2015

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Good

Good

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L4 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30641313 **Bowyers Water**

National Grid Reference: TL 36751 01527

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Artificial **Hydromorphological Designation:**

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving good status by 2015 2015

certainty of less than

good)

Good

Macrophytes Good Phytoplankton Good Good

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving 2015 good status by 2015

certainty of less than

good)

High High

Dissolved Oxygen **Total Phosphorus** Moderate (Very Certain) Good

Ecological Potential Assessment

Predicted Status by Element Current status Justification for not achieving good status by 2015

2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty

that status is less than good)

Waterbody Category and Map Code.: Lake - L5 Surveillance site: No

Waterbody ID and Name: GB30641523 King Georges Reservoir

National Grid Reference: TQ 37147 96506

Current Overall Potential Bad

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Bad (Very Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Chironom Invertebrates Bad (Very Certain) Bad Technically infeasible (B2a)
Phytoplankton Moderate (Very Certain) Moderate
Technically infeasible (P2a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Total Phosphorus Bad (Very Certain) Poor Technically infeasible (P2a)

Copper High High
Zinc High High

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Lake - L6 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30641659 William Girling Reservoir

National Grid Reference: TQ 36730 94349

Current Overall Potential Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Artificial **Hydromorphological Designation:**

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Very Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than good status by 2015 2015

good)

Poor Phytoplankton Poor (Very Certain) Technically infeasible (P2a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015

good)

good status by 2015

Total Phosphorus Bad (Very Certain) Bad Technically infeasible (P2a)

High Copper High Zinc High High

Ecological Potential Assessment

Predicted Status by Justification for not achieving Element **Current status**

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: Lake - L7 Surveillance site: No

Waterbody ID and Name: GB30641865 Lockwood Reservoir

National Grid Reference: TQ 35273 90265

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Natura 2000 (Habitats and/or Birds

Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: Lake - L8 Surveillance site: No

Waterbody ID and Name: GB30641884 Walthamstow Reservoirs

National Grid Reference: TQ 35437 89754

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Natura 2000 (Habitats and/or Birds

Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Ensure the seasonal pattern of water levels during each year is managed so as to enable the establishment and retention of aquatic plant and animal communities in the shore zone of the impoundment.

In Place

Ensure the rate and range of any artificial drawdown is appropriately managed to maintain aquatic plant and animal communities in the shore zones of water storage and supply with gently shelving shore zones.

In Place

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: London RBD: 6

Lake - L9 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30641900 Walthamstow Reservoirs

National Grid Reference: TQ 35232 89615

Current Overall Potential Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Natura 2000 (Habitats and/or Birds

Directive), Nitrates Directive

No SSSI (Non-N2K) related:

Artificial **Hydromorphological Designation:**

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Very Certain - WoE)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than good status by 2015

good)

Poor Phytoplankton Poor (Very Certain) Technically infeasible (P2a)

Supporting elements

Justification for not achieving **Current status (and Predicted Status by** Element certainty of less than good status by 2015 2015

good)

Total Phosphorus Bad (Very Certain) Bad Technically infeasible (P2a)

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Ensure the seasonal pattern of water levels during each year is managed so as to enable the establishment and retention of aquatic plant and animal communities in the shore zone of the impoundment.

Ensure the rate and range of any artificial drawdown is appropriately managed to maintain aquatic

plant and animal communities in the shore zones of water storage and supply with gently shelving shore zones.

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

In Place

In Place

Catchment: London RBD: 6

Waterbody Category and Map Code.: Lake - L10 Surveillance site: No

Waterbody ID and Name: GB30641922 Reservoir No 4

National Grid Reference: TQ 35386 88910

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Natura 2000 (Habitats and/or Birds

Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Ensure the seasonal pattern of water levels during each year is managed so as to enable the establishment and retention of aquatic plant and animal communities in the shore zone of the impoundment.

In Place

Ensure the rate and range of any artificial drawdown is appropriately managed to maintain aquatic plant and animal communities in the shore zones of water storage and supply with gently shelving shore zones.

In Place

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: London RBD: 6

Waterbody Category and Map Code.: Lake - L11 Surveillance site: No

Waterbody ID and Name: GB30641924 Reservoir no 1

National Grid Reference: TQ 35080 88872

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain - WoE)

Biological elements

Element Current status (and

Current status (and Predicted Status by certainty of less than 2015

Justification for not achieving good status by 2015

good)

good)

Phytoplankton Good Good

Supporting elements

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Total Phosphorus

Bad (Very Certain)

Bad

Disproportionately expensive

(P1o)

Ecological Potential Assessment

Element Current status

Predicted Status by 2015

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Good Good

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Ensure the seasonal pattern of water levels during each year is managed so as to enable the establishment and retention of aquatic plant and animal communities in the shore zone of the impoundment.

In Place

Ensure the rate and range of any artificial drawdown is appropriately managed to maintain aquatic plant and animal communities in the shore zones of water storage and supply with gently shelving shore zones.

In Place

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: London RBD: 6

Waterbody Category and Map Code.: Lake - L12 Surveillance site: No

Waterbody ID and Name: GB30641939 Warwick Reservoir

TQ 34840 88615 **National Grid Reference:**

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Natura 2000 (Habitats and/or Birds

Directive), Nitrates Directive

No SSSI (Non-N2K) related:

Artificial **Hydromorphological Designation:**

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Very Certain - WoE)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than good status by 2015

good)

Phytoplankton Moderate (Quite Certain) Moderate Technically infeasible (P2a)

Supporting elements

Justification for not achieving **Predicted Status by** Element Current status (and certainty of less than good status by 2015 2015

good)

Total Phosphorus Bad (Very Certain) Bad Technically infeasible (P2a)

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Ensure the seasonal pattern of water levels during each year is managed so as to enable the establishment and retention of aquatic plant and animal communities in the shore zone of the impoundment.

Ensure the rate and range of any artificial drawdown is appropriately managed to maintain aquatic

plant and animal communities in the shore zones of water storage and supply with gently shelving shore zones.

Chemical Status

Current Status (and certainty that status is less than good) Does not require assessment

In Place

In Place

Catchment: London RBD: 6

Waterbody Category and Map Code.: Lake - L13 Surveillance site: No

Waterbody ID and Name: GB30641956 Warwick Reservoir

National Grid Reference: TQ 34673 88169

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Natura 2000 (Habitats and/or Birds

Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Ensure the seasonal pattern of water levels during each year is managed so as to enable the establishment and retention of aquatic plant and animal communities in the shore zone of the impoundment.

In Place

Ensure the rate and range of any artificial drawdown is appropriately managed to maintain aquatic plant and animal communities in the shore zones of water storage and supply with gently shelving shore zones.

In Place

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: London RBD: 6

Waterbody Category and Map Code.: Lake - L14 Surveillance site: No

Waterbody ID and Name: GB30641975 Stoke Newington East Reservoir

National Grid Reference: TQ 32817 87583

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Catchment: London RBD: 6

Lake - L15 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30641796 **Bentley Priory**

National Grid Reference: TQ 15566 92680

Current Overall Potential Moderate Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

good)

Supports Good Supports Good

Quantity and Dynamics of Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving good status by 2015

2015

Moderate Moderate Mitigation Measures Technically infeasible (M1g)

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: London RBD: 6

Waterbody Category and Map Code.: Lake - L16 Surveillance site: No

Waterbody ID and Name: GB30647003 Banbury Reservoir

National Grid Reference: TQ 36137 91300

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Catchment: London RBD: 6

Waterbody Category and Map Code.: Lake - L17 Surveillance site: No

Waterbody ID and Name: GB30643125 Epsom Stew Pond

National Grid Reference: TQ 18362 60934

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

B.12 Medway river catchment

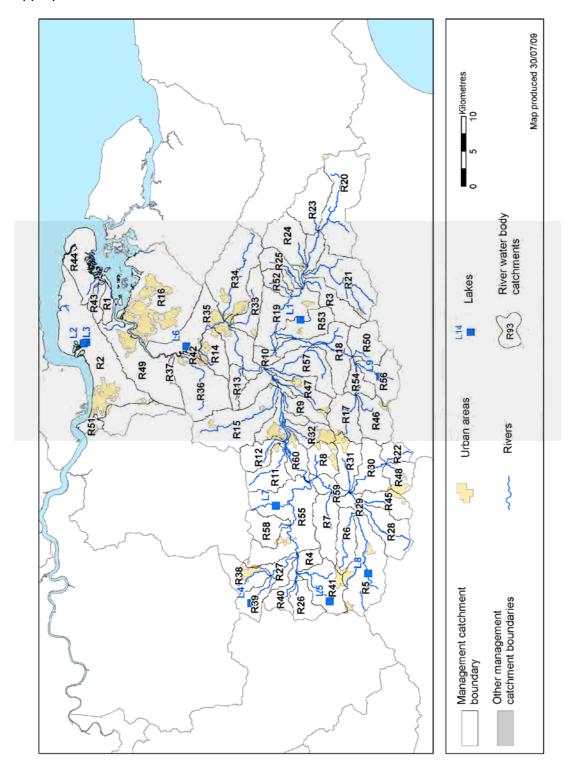
Rivers and Lakes

There are 60 river water bodies (of which 32 are designated as heavily modified) and 9 lake water bodies (of which 4 are designated as artificial and 5 as heavily modified) within the Medway river catchment.

Figure B.12.1 Status objectives for rivers and lakes in the Medway river catchment

Proposed status/potential objective					
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	2	2	28	26	28
Lakes	0	0	0	0	0
Heavily modified water bodies	1	1	37	36	37
Artificial water bodies	4	4	4	0	4

Figure B.12.2 River and lake water bodies in the Medway river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Medway catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Waterbody Category and Map Code.: River - R1 Surveillance site: No

Waterbody ID and Name: GB106040024160 Damhead Creek

National Grid Reference: TQ 80294 71658

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive)

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530604002300

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does

Flow

Morphology Supports Good

Disproportionately expensive

(HR4a)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R2 Surveillance site: No

Waterbody ID and Name: GB106040024230 Dry valley south of Gravesend

National Grid Reference: TQ 78040 78368

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive, Shellfish

Water Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

Supports Good

good status by 2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good

Supports Good
Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R3 Surveillance site: No

Waterbody ID and Name: GB106040018030 Tributary of Beult at Frittenden

National Grid Reference: TQ 81450 42630

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified
Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018270

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Iron	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3a)

RBD: 6

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R4 Surveillance site: No

Waterbody ID and Name: <u>GB106040018050</u> Eden Brook East of Lingfield

National Grid Reference: TQ 40825 44916

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018160

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	High	High	
Invertebrates	Poor (Very Certain)	Poor	Disproportionately expensive (P1c), Technically infeasible (B2p)
Phytobenthos	Poor (Very Certain)	Moderate	Disproportionately expensive (P1c)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Bad (Very Certain)	Bad	Technically infeasible (DO2b)
pН	High	High	
Phosphate	Bad (Very Certain)	Poor	Disproportionately expensive (P1c)
Temperature	High	High	,
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Supports Good	Supports Good	
Morphology	Supports Good	Supports Good	

Catchment: Medway

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

(P1c)

Justification for not achieving

Waterbody Category and Map Code.: River - R5 Surveillance site: No

Waterbody ID and Name: GB106040018070 Medway at Weir Wood

National Grid Reference: TQ 44345 35051

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

Current status (and

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018181

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Uncertain)	Moderate	Not Required (MS)
Invertebrates	Moderate (Quite Certain)	Good	
Phytobenthos	Poor (Very Certain)	Moderate	Disproportionately expensive

Supporting elements

Flement

Lienien	certainty of less than good)	2015	good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Moderate (Uncertain)	Moderate	Disproportionately expensive (DO1a)
pH	High	High	
Phosphate	Bad (Very Certain)	Bad	Disproportionately expensive (P1c)
Temperature	High	High	
Copper	High	High	
Cypermethrin	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Predicted Status by

Supporting conditions

Flow

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of	Supports Good	Supports Good	

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015 RBD: 6

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015

good)

Nickel And Its Compounds High High good status by 2015

River - R6 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018080 Shovelstrode Stream

National Grid Reference: TQ 44493 38412

Current Overall Status Good

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018181

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and**

Predicted Status by certainty of less than 2015

Justification for not achieving

good status by 2015

High Invertebrates High

good)

Supporting elements

Element **Current status (and Predicted Status by** certainty of less than 2015

good)

Justification for not achieving good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Phosphate High High Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Supports Good Supports Good Morphology

Chemical Status

Current Status (and certainty that status is less than good)

River - R7 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018090 Kent Water

National Grid Reference: TQ 48748 40787

Current Overall Status Good

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018181

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Current status (and Element

certainty of less than

good)

Good Invertebrates

Predicted Status by

2015

Good

Justification for not achieving

good status by 2015

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

High Ammonia (Phys-Chem) High Dissolved Oxygen Good Good pΗ High High Good Phosphate Good High Temperature High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good

Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Waterbody Category and Map Code.: River - R8 Surveillance site: No

Waterbody ID and Name: GB106040018100 Barden Mill Stream

National Grid Reference: TQ 55981 41416

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018181

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Poor Invertebrates Poor (Very Certain) Disproportionately expensive

(A1a, P5c)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Moderate (Uncertain) Moderate Disproportionately expensive

(A1a)

Dissolved Oxygen High High High High pН

Phosphate Bad (Very Certain) Bad Disproportionately expensive

(P5c) Temperature High High

Moderate Ammonia (Annex 8) Moderate (Uncertain) Disproportionately expensive

(A1a)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Quantity and Dynamics of Supports Good Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R9 Surveillance site: No

Waterbody ID and Name: GB106040018110 Alder Stream & Hammer Dyke

National Grid Reference: TQ 64534 46702

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified
Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018182

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	,
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and certainty of less than good)

Quantity and Dynamics of Flow Current status (and certainty of less than good)

Predicted Status by Justification for not achieving good status by 2015

Does not Support Good Does not Support Disproportionately expensive (HR2a)

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Waterbody Category and Map Code.: River - R10 Surveillance site: No

Waterbody ID and Name: GB106040018140 Beult at Yalding

National Grid Reference: TQ 69996 49705

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018440

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Good Invertebrates Good

good)

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High

Dissolved Oxygen High High

Moderate (Quite Certain) pΗ

Moderate

Disproportionately expensive

(PH1a)

Phosphate Moderate (Very Certain) Good Temperature Good Good High Ammonia (Annex 8) High

Supporting conditions

Current status (and Element

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

2015

Ecological Potential Assessment

Element **Current status** **Predicted Status by**

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Moderate Moderate

Technically infeasible (M3a)

RBD: 6

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R11

Waterbody ID and Name: GB106040018150 **Bid Stream**

National Grid Reference: TQ 54235 48865

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018182

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015 good status by 2015

Moderate Fish Moderate (Quite Certain) Disproportionately expensive (B1a)

Invertebrates High High

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High Phosphate Good Good Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

good status by 2015

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving

2015

certainty of less than

good)

Supports Good

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R12 Surveillance site: No

Waterbody ID and Name: GB106040018170 Hilden Brook

National Grid Reference: TQ 57411 49261

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018182

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain)

Biological elements

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates

Poor (Very Certain)

Moderate

Technically infeasible (B2m)

Supporting elements

Ammonia (Phys-Chem)

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving good status by 2015

good)

Good

good)

Dissolved Oxygen Good

High

Good High Good

Good

Phosphate Moderate (Very Certain)
Temperature High
Copper High

High High

Good

good)

High High High

Good

Ammonia (Annex 8)

Supporting conditions

Current status (and certainty of less than

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Flow

Element

pΗ

Zinc

Supports Good

Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Surveillance site: No Waterbody Category and Map Code.: River - R13

Waterbody ID and Name: GB106040018190 Mereworth Stream

National Grid Reference: TQ 66623 53520

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018440

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Current status (and Element

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Good Invertebrates Good

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Phosphate Good Temperature High High Copper High High Zinc High High

High

Supporting conditions

Ammonia (Annex 8)

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

High

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element **Current status** **Predicted Status by** 2015

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3a)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R14 Surveillance site: No

Waterbody ID and Name: GB106040018200 Ditton Stream

National Grid Reference: TQ 70616 57910

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified
Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530604002300

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good) Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive Good Flow (Quite Certain) (HR4a)

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R15

Waterbody ID and Name: GB106040018210 Bourne

National Grid Reference: TQ 60691 55609

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018182

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

good status by 2015 certainty of less than 2015

good)

Fish Moderate (Quite Certain) Moderate Technically infeasible (B2a)

Good Invertebrates Good

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving

certainty of less than 2015 good status by 2015 good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High

pН High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive (P1b)

Temperature High High Copper High High Zinc High High

Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Flow

Morphology

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Does not Support Good Does not Support

(Uncertain)

Supports Good

Good

Supports Good

Disproportionately expensive

(HR2a)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R16 Surveillance site: No

Waterbody ID and Name: GB106040018220 Swale Tributary at Lower Halstow

National Grid Reference: TQ 85759 66488

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified
Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530604002300

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting conditions

Element	Current status (and	Predicted Status by	Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

Flow (Quite Certain) Good (HR4a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Appropriate timing (vegetation control)	Not In Place
Appropriate vegetation control technique	Not In Place
Selective vegetation control regime	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Waterbody Category and Map Code.: River - R17 Surveillance site: No

Waterbody ID and Name: GB106040018250 **Upper Teise**

National Grid Reference: TQ 63019 38222

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018310

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Fish High High Invertebrates Good Good

good)

Supporting elements

Element Current status (and

certainty of less than

Predicted Status by

2015

Justification for not achieving

good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate High High Temperature High High Copper High High Zinc Moderate (Uncertain) High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status **Predicted Status by**

2015

Justification for not achieving good status by 2015

Technically infeasible (M3a)

Mitigation Measures Assessment

Moderate

Moderate

Environment Agency, Annex B Thames River Basin District, December 2009

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Waterbody Category and Map Code.: River - R18 Surveillance site: No

Waterbody ID and Name: GB106040018260 Lesser Teise

National Grid Reference: TQ 73259 45720

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Drinking Water, Flood Protection, Water Regulation (impoundment release), **Reason for Designation:**

Water Regulation (strategic transfer)

GB106040018140 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Good Fish Good Invertebrates High High

Supporting elements

Cypermethrin

Assessment

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

Phosphate

Moderate (Very Certain) Moderate Disproportionately expensive

High

(P1c)

Temperature High High

Copper High

> Moderate (Uncertain) Moderate

Technically infeasible (C2a)

Zinc High High Ammonia (Annex 8) High High

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving 2015 good status by 2015

Moderate Moderate Mitigation Measures Technically infeasible (M3a)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Ensure there is an appropriate baseline flow regime downstream of the impoundment.	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Nickel And Its Compounds	High	High	

RBD: 6 Catchment: Medway

Waterbody Category and Map Code.: River - R19 Surveillance site: No

Waterbody ID and Name: Beult GB106040018270

TQ 83291 43794 **National Grid Reference:**

Poor **Current Overall Potential**

(For Protected Area Objectives see Annex D) Good by 2027 **Status Objective (Overall):**

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Flood Protection **Reason for Designation:**

Downstream Waterbody ID: GB106040018140

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Poor	Not Required (MS)
Invertebrates	Good	Good	
Phytobenthos	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Moderate (Quite Certain)	Moderate	Disproportionately expensive (DO1a)
рН	High	High	,
Phosphate	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1c)
Temperature	Good	Good	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Flow

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of	Supports Good	Supports Good	

Ecological Potential Assessment

Element Current status

Predicted Status by

Justification for not achieving good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

2015

Technically infeasible (M3a)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Retail marginal aquatic and riparian nabitats (channel alteration)	Not in Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element Current status (and predicted Status by certainty of less than 2015 Justification for not achieving good status by 2015

good)

Nickel And Its Compounds High High

Waterbody Category and Map Code.: River - R20 Surveillance site: No

Waterbody ID and Name: GB106040018280 Upper Beult

National Grid Reference: TQ 94750 38912

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018270

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Very Certain)

Biological elements

Element Current status (and

certainty of less than

certainty of less the good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Good Good

Supporting elements

Element Current status (and Predicte

High

High

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) Good G

Dissolved Oxygen Poor (Quite Certain)

High

oor (Quite Certain)

Good Poor

Disproportionately expensive

(DO1a)

pH High

Phosphate Poor (Very Certain)

High

Poor High

High

High High

High

High High Good Good Disproportionately expensive (P1c)

Supporting conditions

Ammonia (Annex 8)

Temperature

Copper

Iron

Zinc

Element Current status (and

certainty of less than

good)

Supports Good

Predicted Status by 2015

Justification for not achieving good status by 2015

Supports Good

Quantity and Dynamics of

Flow

Catchment: Medway

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a) Assessment

Mitigation Measures that have defined Ecological Potential

 Mitigation Measure
 Status

 Alteration of channel bed (within culvert)
 Not In Place

 Re-opening existing culverts
 Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Medway RBD: 6

Surveillance site: No Waterbody Category and Map Code.: River - R21

Waterbody ID and Name: GB106040018290 Hammer Stream

National Grid Reference: TQ 83213 42067

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

GB106040018270 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Moderate Invertebrates Moderate (Uncertain) Not Required (MS)

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High

Dissolved Oxygen Moderate (Uncertain)

High

Moderate

Disproportionately expensive

(DO1a)

Phosphate Poor (Very Certain)

Temperature High High High

Zinc

High Ammonia (Annex 8) High

Poor High

High

High High High

High

Disproportionately expensive (P1c)

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Flow

pΗ

Copper

Iron

Supports Good

Supports Good

Catchment: Medway

RBD: 6

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R22 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040013370 Tributary of upper Medway at Town Row

National Grid Reference: TQ 56157 30551

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018390

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Medway RBD: 6

Waterbody Category and Map Code.: River - R23 Surveillance site: No

Waterbody ID and Name: GB106040018300 Upper Beult

National Grid Reference: TQ 90499 42500

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018270

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good
Dissolved Oxygen High High
PH High High

Phosphate Poor (Uncertain) Poor Disproportionately expensive

(P1a)

Temperature High High Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Alteration of channel bed (within culvert)

Not In Place

Re-opening existing culverts

Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Medway RBD: 6

River - R24 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018320 Sherway

National Grid Reference: TQ 85335 44430

Current Overall Potential Moderate Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018270

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting elements

ensive

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of

Ecological Potential Assessment

Flow

Supports Good

2015

Supports Good

Element Current status Predicted Status by Justification for not achieving

good status by 2015 Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Waterbody Category and Map Code.: River - R25 Surveillance site: No

Waterbody ID and Name: GB106040018330 Ulcombe Stream

National Grid Reference: TQ 83922 47386

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018270

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Moderate (Quite Certain) Moderate Not Required (MS)

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem)

High

Moderate (Uncertain)

High Moderate

Disproportionately expensive

(DO1a)

pΗ

Dissolved Oxygen

High

High

Phosphate Moderate (Very Certain) Moderate

Disproportionately expensive

(P1b)

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and**

certainty of less than

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Supports Good Supports Good

Ecological Potential Assessment

Element Current status **Predicted Status by** 2015

Predicted Status by

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Moderate

good)

Moderate

Technically infeasible (M3a)

413

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Waterbody Category and Map Code.: River - R26 Surveillance site: No

Waterbody ID and Name: GB106040018340 Tributary of Eden Brook

National Grid Reference: TQ 37367 44902

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018050

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Poor Invertebrates Poor (Very Certain) Technically infeasible (B2p,

DO2b)

(P1c)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High

Dissolved Oxygen Bad (Very Certain) Bad Technically infeasible (DO2b)

pΗ High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

High

Temperature High High Copper High High

Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Waterbody Category and Map Code.: River - R27 Surveillance site: No

Waterbody ID and Name: GB106040018350 Upper Eden

National Grid Reference: TQ 41557 46074

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018160

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Moderate (Uncertain) Moderate Not Required (MS) Moderate (Quite Certain) Invertebrates Moderate Not Required (MS)

Supporting elements

Ammonia (Phys-Chem)

Element **Current status (and Predicted Status by** Justification for not achieving 2015

certainty of less than

good) High

High

good status by 2015

Dissolved Oxygen High High pН High High

Bad (Very Certain) Phosphate

Bad

High **Temperature** High Ammonia (Annex 8) High High Disproportionately expensive

(P1b)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Current status Predicted Status by Element Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R28

Waterbody ID and Name: GB106040018360 Pippingford Brook

National Grid Reference: TQ 44929 29743

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018180

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good Good Good Invertebrates

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High

Dissolved Oxygen Moderate (Uncertain) Moderate

Disproportionately expensive

(DO1a)

рΗ High

Moderate (Uncertain)

High

Moderate

Disproportionately expensive

(P1c)

Temperature High

Copper

Moderate (Very Certain) Moderate (Very Certain)

High Moderate High

Hiah

Technically infeasible (C2a)

High Ammonia (Annex 8)

Supporting conditions

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Phosphate

Zinc

Supports Good

good)

Supports Good

Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R29 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018380 Lower Pippingford Brook

National Grid Reference: TQ 49207 36150

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018181

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving good status by 2015 2015

Mitigation Measures

Assessment

Moderate Moderate

Technically infeasible (M3a)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R30 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018390 Eridge Stream

National Grid Reference: TQ 53429 35196

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018181

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Fish Good Good Invertebrates High High

good)

Supporting elements

Current status (and Element

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pН High High

Phosphate

Poor (Very Certain)

Moderate

Disproportionately expensive

(P1c)

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and**

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

good)

Supports Good

Supports Good

Supports Good

Catchment: Medway

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Element Current status (and

good)

certainty of less than

2015

Justification for not achieving good status by 2015

Predicted Status by

Nickel And Its Compounds High High

Catchment: Medway RBD: 6

Waterbody Category and Map Code.: River - R31 Surveillance site: No

Waterbody ID and Name: GB106040018400 Grom

National Grid Reference: TQ 54455 37840

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018181

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Invertebrates Moderate (Uncertain) Moderate Technically infeasible (B2m)

Phytobenthos Poor (Very Certain) Poor Disproportionately expensive

(P1c)

Supporting elements

Element Current status (and certainty of less than Predicted Status by 2015 Justification for not achieving good status by 2015

good)

Ammonia (Phys-Chem) Moderate (Quite Certain) Moderate Disproportionately expensive

(A1a)

Dissolved Oxygen Good Good pH High High

Phosphate Bad (Very Certain) Poor Disproportionately expensive (P1c)

Temperature High High
Copper High High
Iron High High
Zinc High High

Ammonia (Annex 8) Moderate (Quite Certain) Moderate Disproportionately expensive

(A1a)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

River - R32 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018410 Somerhill Stream

National Grid Reference: TQ 59565 44397

Current Overall Status Bad

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018182

Ecological Status

Current Status (and certainty that status is less than good) Bad (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

good status by 2015 certainty of less than 2015

good)

Bad Invertebrates Bad (Very Certain) Technically infeasible (B2a, B2l,

B2m)

Phytobenthos Poor Technically infeasible (B2I, B2m) Poor (Very Certain)

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

Predicted Status by Element **Current status (and** certainty of less than

Good

High

good)

Good

2015

Justification for not achieving good status by 2015

High High

High pΗ Phosphate Bad (Very Certain) Poor

Disproportionately expensive (P1c)

Temperature High High Copper Moderate (Very Certain) High Iron High High 7inc High High

Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Catchment: Medway RBD: 6

Waterbody Category and Map Code.: River - R33 Surveillance site: No

Waterbody ID and Name: GB106040018420 Loose Stream

National Grid Reference: TQ 76650 51898

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018440

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Quite Certain)	Poor	Technically infeasible (B2a)
Invertebrates	Good	Good	
Phytobenthos	Poor (Very Certain)	Moderate	Disproportionately expensive (P1b)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1b)
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Supports Good	Supports Good	
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Medway RBD: 6

River - R34 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018430 Len

National Grid Reference: TQ 79260 54549

Current Overall Potential Bad

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018440

Ecological Potential

Current Status (and certainty that status is less than good) Bad (Very Certain - WoE)

Biological elements

Element	Current status (and	Predicted Status by	Justification for not achieving
	certainty of less than	2015	good status by 2015
	good)		

Moderate

Fish Moderate (Uncertain)

Invertebrates Good Good Phytobenthos Bad (Very Certain)

Moderate Disproportionately expensive

(P1d)

Not Required (MS)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Good	
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015 good) Quantity and Dynamics of Supports Good Supports Good

Flow

RBD: 6

Ecological Potential Assessment

Element Current status

Predicted Status by

Justification for not achieving good status by 2015

Mitigation Measures Assessment Moderate

Moderate

2015

Technically infeasible (M3a)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Waterbody Category and Map Code.: River - R35 Surveillance site: Yes

Waterbody ID and Name: GB106040018440 Medway at Maidstone

National Grid Reference: TQ 74207 53913

Moderate **Current Overall Potential**

(For Protected Area Objectives see Annex D) Good by 2027 Status Objective (Overall):

Good Ecological Potential by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation

Downstream Waterbody ID: GB530604002300

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Invertebrates Moderate Moderate (Quite Certain) Not Required (MS)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)
Temperature	High	High	,
2,4-dichlorophenol	High	High	
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	High	High	
Cypermethrin	High	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Phenol	High	High	
Toluene	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3g)

Assessment

Mitigation Measures that have defined Ecological Potential

Status
Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Very Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzene	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Moderate (Quite Certain)	Moderate	Technically infeasible (C2a)
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Diuron	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	Moderate (Quite Certain)	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Tributyltin Compounds	Moderate (Very Certain)	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Catchment: Medway RBD: 6

Waterbody Category and Map Code.: River - R36 Surveillance site: Yes

Waterbody ID and Name: <u>GB106040018450</u> Leybourne Stream

National Grid Reference: TQ 67774 58486

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530604002300

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Quite Certain)	Moderate	Disproportionately expensive (HR4a), Technically infeasible (B2a)
Invertebrates	High	High	
Phytobenthos	Moderate (Uncertain)	Moderate	Technically infeasible (B2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	current status (and certainty of less than good)	2015	good status by 2015
Quantity and Dynamics of	Does not Support Good	Does not Support	Disproportionately expensive
Flow	(Quite Certain)	Good	(HR4a)
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R37 Surveillance site: No

Waterbody ID and Name: GB106040018460 Trib of Medway Estuary at Holborough

National Grid Reference: TQ 71001 62934

Current Overall Potential Moderate
Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified
Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530604002300

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting conditions

Element	Current status (and	Predicted Status by	Justification for not achieving
	certainty of less than	2015	good status by 2015
	good)		

Quantity and Dynamics of Does

Flow

Does not Support Good (Uncertain)

Does not Support Good Disproportionately expensive

(HR2a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R38 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018630 Upper Eden

National Grid Reference: TQ 39493 51233

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018350

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Poor Invertebrates Poor (Very Certain) Technically infeasible (B2m)

Supporting elements

Dissolved Oxygen

pΗ

Predicted Status by Element **Current status (and**

certainty of less than

good)

2015

Good

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) Moderate (Very Certain)

Poor (Very Certain)

Good

High

High

Bad (Very Certain) Phosphate

Poor

High

High

Disproportionately expensive (P1c)

Temperature High High Copper High High

Iron High Zinc High

Ammonia (Annex 8) Moderate (Very Certain)

Good

Supporting conditions

Element **Current status (and**

certainty of less than good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Catchment: Medway

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

River - R39 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018640 Gibbs Brook

National Grid Reference: TQ 37382 49534

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018350

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Good Good

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pΗ High High

Bad (Very Certain) Bad Phosphate

High Temperature High Copper High High Zinc High High Ammonia (Annex 8) High High good status by 2015

Disproportionately expensive

(P1c)

Supporting conditions

Element Current status (and **Predicted Status by**

good)

certainty of less than

Justification for not achieving good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R40 Surveillance site: No

Waterbody ID and Name: GB106040018650 Trib of Edenbrook

National Grid Reference: TQ 37233 46255

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018050

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Quite Certain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem)HighHighDissolved OxygenHighHighpHHighHigh

Phosphate Moderate (Quite Certain) Moderate Disproportionately expensive (P1a)

Temperature High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and certainty of less than Current status (and certainty of less than Current status (and certainty of less than 2015 Justification for not achieving good status by 2015

Supports Good

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment that status is less than good)

Catchment: Medway RBD: 6

River - R41 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018660 Eden Brook

National Grid Reference: TQ 39494 42181

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018050

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

Justification for not achieving

good status by 2015

Invertebrates Moderate Moderate (Uncertain) Disproportionately expensive

(P1c)

Supporting elements

Element Current status (and **Predicted Status by** certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Phosphate

Poor (Very Certain)

Moderate

Disproportionately expensive

(P1c)

Temperature High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than good)

Predicted Status by

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Catchment: Medway

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Catchment: Medway RBD: 6

River - R42 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018740 upper Medway Estuary

National Grid Reference: TQ 71578 59362

Current Overall Potential Moderate Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB530604002300

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

good)

Quantity and Dynamics of

Flow

Supports Good Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Moderate Moderate Technically infeasible (M3a, M3b) Mitigation Measures

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Catchment: Medway RBD: 6

Waterbody Category and Map Code.: River - R43 Surveillance site: No

Waterbody ID and Name: GB106040024030 Trib of Medway Estuary at Kingsnorth

National Grid Reference: TQ 79684 73687

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530604002300

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty

that status is less than good)

Moderate (Uncertain)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

(Uncertain)

Quantity and Dynamics of Does not Support Good

Flow

NA I I

Morphology Supports

Does not Support

Good

Supports Good Supports Good

Disproportionately expensive

(HR2a)

Chemical Status

Current Status (and certainty that status is less than good)

River - R44 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106040024120 Trib of Medway Estuary at High Halstow

National Grid Reference: TQ 80901 74736

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive, Shellfish

Water Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530604002300

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than good status by 2015

good)

Quantity and Dynamics of

Flow

Morphology

Does not Support Good (Quite Certain)

Supports Good

Supports Good

Does not Support Disproportionately expensive Good

(HR4a)

Chemical Status

Current Status (and certainty that status is less than good)

River - R45 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018370 Friars Gate Stream

National Grid Reference: TQ 49895 33559

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018180

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates High High

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Poor

High

High

High

High

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pΗ High High

Poor (Very Certain) Phosphate

High

High

Moderate (Uncertain)

Ammonia (Annex 8) High

Disproportionately expensive

(P1b)

Supporting conditions

Element Current status (and

certainty of less than

Predicted Status by

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Temperature

Copper

Zinc

Supports Good

good)

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Waterbody Category and Map Code.: River - R46 Surveillance site: No

Waterbody ID and Name: GB106040018240 **Bartley Mill Stream**

National Grid Reference: TQ 63455 35745

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018310

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

2015

Predicted Status by

Justification for not achieving

good status by 2015

Invertebrates High High

good)

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Phosphate

Poor (Very Certain)

Poor

Disproportionately expensive

(P1a)

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than good)

Predicted Status by

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status **Predicted Status by** 2015

good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3a)

Justification for not achieving

Environment Agency, Annex B Thames River Basin District, December 2009

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R47

Waterbody ID and Name: GB106040018120 **Tudeley Brook**

National Grid Reference: TQ 66266 45281

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018182

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

Invertebrates Moderate (Quite Certain) Good good status by 2015

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High pΗ High High

Bad (Very Certain) Bad Phosphate Disproportionately expensive (P1b)

Temperature High High Iron High High

Ammonia (Annex 8) Good Good

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

RBD: 6

Waterbody Category and Map Code.: River - R48 Surveillance site: No

Waterbody ID and Name: GB106040013360 Tributary of upper Medway at Crowborough

National Grid Reference: TQ 54587 30875

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018390

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen Good Good
pH High High

Phosphate Poor (Uncertain) Poor Disproportionately expensive

(P1a)

Temperature High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Catchment: Medway RBD: 6

Waterbody Category and Map Code.: River - R49 Surveillance site: No

Waterbody ID and Name: GB106040024180 Medway Estuary

National Grid Reference: TQ 75151 71442

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530604002300

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does

Flow

Morphology

Does not Support Good

(Uncertain)

Supports Good Supports Good

Does not Support

Good (HI

Disproportionately expensive

(HR2a)

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Waterbody Category and Map Code.: River - R50 Surveillance site: No

Waterbody ID and Name: GB106040018510 Tributary of Teise

National Grid Reference: TQ 71350 36082

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018310

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Good Invertebrates Good

good)

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) Good Good Dissolved Oxygen Good Good pΗ High

High

Moderate (Very Certain)

Moderate

Disproportionately expensive

(P5c)

Temperature High High High Copper High High Zinc High Ammonia (Annex 8) Good Good

Phosphate

Element

Supporting conditions

Current status (and certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Does not Support Good (Quite Certain)

Does not Support Good

Disproportionately expensive

(HR4a)

Ecological Potential Assessment

Element Current status **Predicted Status by** 2015

good status by 2015

Mitigation Measures

Assessment

Moderate Moderate Technically infeasible (M3a)

Justification for not achieving

Mitigation Measures that have defined Ecological Potential

Mitigation MeasureStatusOperational and structural changes to locks, sluices, weirs, beach control, etcNot In Place

Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.

Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Surveillance site: No Waterbody Category and Map Code.: River - R51

Waterbody ID and Name: GB106040024190 **Ebbsfleet**

National Grid Reference: TQ 61551 74252

Current Overall Potential Moderate Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Quantity and Dynamics of

Flow

Supports Good Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Moderate Mitigation Measures Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status **Not In Place** Retain marginal aquatic and riparian habitats (channel alteration)

Increase in-channel morphological diversity **Not In Place**

Chemical Status

Current Status (and certainty that status is less than good)

River - R52 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018040 Tributary of Beult at Sutton Valance

National Grid Reference: TQ 80823 47092

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

GB106040018270 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Moderate (Quite Certain) Good

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High

Dissolved Oxygen Moderate (Uncertain) Moderate

High pΗ

High

Disproportionately expensive

Justification for not achieving

(DO1a)

Phosphate

Bad (Very Certain)

High High High High

High

Poor

High High High

High High Disproportionately expensive (P1c)

Supporting conditions

Ammonia (Annex 8)

Temperature

Copper

Iron

Zinc

Element Current status (and

certainty of less than

good)

Supports Good

Predicted Status by 2015

good status by 2015

Supports Good

Quantity and Dynamics of

Flow

Catchment: Medway

RBD: 6

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)
Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R53 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018310 Lesser Teise at Marden

National Grid Reference: TQ 73781 46538

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018270

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Hiah	Hiah	

Dissolved Oxygen High High pΗ High High Phosphate Moderate (Uncertain) Good High Temperature High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving 2015 good status by 2015

Mitigation Measures

Assessment

Moderate Moderate

Technically infeasible (M3a)

RBD: 6

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R54 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018520 Teise

National Grid Reference: TQ 67877 36225

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Drinking Water, Flood Protection, Water Regulation (impoundment release), **Reason for Designation:**

Water Regulation (strategic transfer)

GB106040018310 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Current status (and Element

Predicted Status by certainty of less than 2015

Justification for not achieving good status by 2015

good)

High Invertebrates High

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Good Phosphate Temperature High High Copper High High High Zinc High Ammonia (Annex 8) High High

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

Mitigation Measures

Assessment

Moderate

Moderate

good status by 2015

Technically infeasible (M3a)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Ensure there is an appropriate baseline flow regime downstream of the impoundment.	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R55 Surveillance site: Yes

Waterbody ID and Name: GB106040018160 Eden at Bough Beech

National Grid Reference: TQ 51679 44028

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018182

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Quite Certain)	Good	
Invertebrates	Good	Good	
Macrophytes	Moderate (Uncertain)	Moderate	Not Required (MS)
Phytobenthos	Poor (Very Certain)	Poor	Disproportionately expensive (P1b)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1b)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Cypermethrin	High	High	
Dimethoate	High	High	
Iron	High	High	
Phenol	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and

certainty of less than

Supports Good

good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Elow

Supports Good

Ecological Potential Assessment

Element Current status

Predicted Status by 2015

Justification for not achieving good status by 2015

good status b

Mitigation Measures

Assessment

Moderate Moderate

Technically infeasible (M3a)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Diuron	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Trichlorobenzenes	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

RBD: 6 Catchment: Medway

good status by 2015

River - R56 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106040018500 Teise at Bewl

National Grid Reference: TQ 68622 34228

Current Overall Potential Good

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Water Regulation (impoundment release)

Downstream Waterbody ID: GB106040018310

Ecological Potential

Current Status (and certainty

Good that status is less than good)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

2015

certainty of less than

good)

Fish Good Good Good Good Invertebrates

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

High

High

High

good)

Ammonia (Phys-Chem) High Dissolved Oxygen High рΗ High Phosphate Good Temperature High

Good High High High

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving

2015 good status by 2015

Good Mitigation Measures Good

Assessment

Ammonia (Annex 8)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Ensure there is an appropriate baseline flow regime downstream of the impoundment.

In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R57

Waterbody ID and Name: GB106040018130 Teise

National Grid Reference: TQ 70197 41518

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106040018182

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good

Moderate (Very Certain) Moderate Invertebrates Not Required (MS)

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) Good Good Dissolved Oxygen Good Good High

pН

Poor (Very Certain)

High

Poor

High

High

High

Good

Disproportionately expensive

(P1b)

Phosphate **Temperature** High

Copper High Zinc High

Ammonia (Annex 8) Good

Supporting conditions

Element **Current status (and Predicted Status by**

good)

certainty of less than

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R58 Surveillance site: No

Waterbody ID and Name: GB106040018060 Tributary of Eden at Four Elms

National Grid Reference: TQ 46612 46912

Current Overall Status Moderate
Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106040018160

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and

certainty of less than

good)

ou,

Predicted Status by

2015

Justification for not achieving

good status by 2015

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive

(P1a)

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

namics of Supports Good

Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R59 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106040018181 Mid Medway from Hartfield to Eden Confluence

National Grid Reference: TQ 49890 36568

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation:

Downstream Waterbody ID: GB106040018182

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

2015

certainty of less than

good)

good status by 2015

Fish Moderate (Quite Certain) Moderate Not Required (MS)

High High Invertebrates

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015

good)

High

High

High High

good status by 2015

pН High High Phosphate Poor (Very Certain) Poor

Temperature High High Copper High High Zinc High

High Ammonia (Annex 8) High Disproportionately expensive

(P1b)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

High

good)

Quantity and Dynamics of Supports Good

Flow

Supports Good

good status by 2015

Catchment: Medway

Ecological Potential Assessment

Element Current status

Predicted Status by

Justification for not achieving

RBD: 6

good status by 2015

Mitigation Measures Assessment Moderate

Moderate

2015

Technically infeasible (M1k)

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

River - R60 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106040018182 Mid Medway from Eden Confluence to Yalding

National Grid Reference: TQ 54374 44495

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation:

Downstream Waterbody ID: GB106040018440

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Quite Certain - WoE)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good Invertebrates High High

Phytobenthos Moderate (Very Certain) Moderate Disproportionately expensive

(P1e)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

(P1e)

Temperature High High Copper High High Cypermethrin High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Catchment: Medway

Ecological Potential Assessment

Current status Element

Predicted Status by

Justification for not achieving

good status by 2015

Mitigation Measures Assessment

Moderate

Moderate

2015

Technically infeasible (M1k)

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

1,2-dichloroethane High High Nickel And Its Compounds High High Carbon Tetrachloride High High

Waterbody Category and Map Code.: Lake - L1 Surveillance site: No

Waterbody ID and Name: GB30647024 Marden Meadow Ponds

National Grid Reference: TQ 76162 44583

Current Overall Potential Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Lake - L2 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30642407 unnamed

National Grid Reference: TQ 72684 75761

Current Overall Potential Good

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Wider Environment **Reason for Designation:**

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting conditions

Justification for not achieving Element Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good Supports Good

Quantity and Dynamics of Flow

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving

2015

good status by 2015

Good Good Mitigation Measures

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L3 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30642424 unnamed

National Grid Reference: TQ 72814 75374

Current Overall Potential Good

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Wider Environment **Reason for Designation:**

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting conditions

Justification for not achieving Element Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good Supports Good

Quantity and Dynamics of

Flow

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving

2015

good status by 2015

Good Good Mitigation Measures

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L4 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30643485 **Bay Pond**

National Grid Reference: TQ 35281 51655

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Quantity and Dynamics of

Flow

Supports Good Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Moderate Moderate Mitigation Measures Technically infeasible (M1g)

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L5 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30644023 Hedgecourt Lake

National Grid Reference: TQ 35520 40346

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

good)

Supports Good

Quantity and Dynamics of

Flow

Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Moderate Moderate Mitigation Measures Technically infeasible (M1g)

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Lake - L6 Surveillance site: No

Waterbody ID and Name: GB30643117 Snodland Reservoir

National Grid Reference: TQ 72271 60994

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: Lake - L7 Surveillance site: No

Waterbody ID and Name: GB30643602 Bough Beech Reservoir

National Grid Reference: TQ 49327 48105

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Drinking Water, Water Storage - non-specific

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Chironom Invertebrates	Moderate (Very Certain)	Moderate	Technically infeasible (B2a)
Phytobenthos	Poor (Very Certain)	Poor	Disproportionately expensive (P1d)
Phytoplankton	Moderate (Quite Certain)	Moderate	Disproportionately expensive (P1d)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Acid Neutralising Capacity	High	High	
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
Total Phosphorus	Bad (Very Certain)	Poor	Disproportionately expensive (P1d)
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Ecological Potential Assessment

Element	Current status	Predicted Status by 2015	Justification for not achieving good status by 2015
Mitigation Measures Assessment	Moderate	Moderate	Technically infeasible (M3d)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Ensure there is an appropriate baseline flow regime downstream of the impoundment.	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Ensure that the thermal regime in waters downstream of the impounding works is consistent with good status conditions.	Not In Place
Ensure that good status of dissolved oxygen levels is being achieved downstream of the impounding works	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Medway

Lake - L8 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30644310 Weir Wood Reservoir

National Grid Reference: TQ 39539 34820

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: Yes

Hydromorphological Designation: Heavily Modified

Reason for Designation: Drinking Water, Water Storage - non-specific

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Element Current status (and **Predicted Status by**

certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Good Phytoplankton Moderate (Uncertain)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Total Phosphorus Moderate (Very Certain) Good

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3d)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status Ensure there is an appropriate baseline flow regime downstream of the impoundment. In Place In Place Enable access to relevant feeder-streams draining into the reservoir at appropriate times for spawning and migration. Management of the risk of fish entrainment in intakes for hydropower turbines or water resource In Place purposes (or pumping stations) where there is downstream fish migration. Ensure that the thermal regime in waters downstream of the impounding works is consistent with **Not In Place** good status conditions. Ensure that good status of dissolved oxygen levels is being achieved downstream of the **Not In Place** impounding works **Not In Place**

Where structures or other mechanisms are in place to enable fish to access waters upstream of the impounding works, the volume and timing of flow releases is sufficient to enable and, where relevant, trigger fish migration.

Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.

Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L9 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30644398 **Bewl Water**

National Grid Reference: TQ 67942 33096

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates

Directive, Urban Waste Water Treatment Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Drinking Water, Water Storage - non-specific

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Quite Certain - WoE)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good) Moderate

Chironom Invertebrates Moderate (Uncertain) Technically infeasible (B2a) Phytoplankton Moderate (Quite Certain) Disproportionately expensive Moderate

(P1d)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than good status by 2015

good)

Total Phosphorus Moderate (Very Certain) Moderate Disproportionately expensive (P1d)

High Copper High Zinc High High

Ecological Potential Assessment

Justification for not achieving Element **Current status Predicted Status by** 2015 good status by 2015

Mitigation Measures

Assessment

Moderate Moderate

Technically infeasible (M3d)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Ensure there is an appropriate baseline flow regime downstream of the impoundment.	In Place
Enable access to relevant feeder-streams draining into the reservoir at appropriate times for spawning and migration.	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Re-engineering of the river where the flow regime cannot be modified.	In Place
Ensure that the thermal regime in waters downstream of the impounding works is consistent with good status conditions.	Not In Place
Ensure that good status of dissolved oxygen levels is being achieved downstream of the impounding works	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

B.13 Mole river catchment

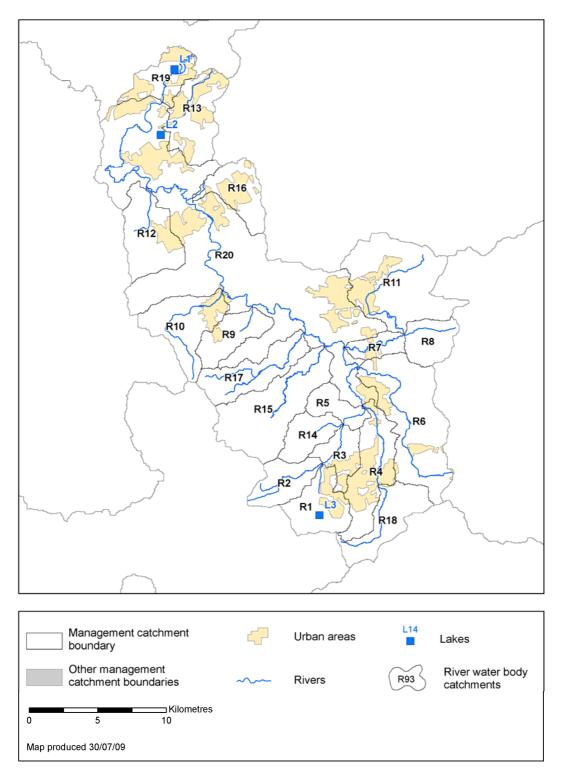
Rivers and Lakes

There are 20 river water bodies (of which 8 are designated as heavily modified) and 3 lake water bodies (of which 1 is designated as artificial and 2 as heavily modified) within the Mole river catchment.

Figure B.13.1 Status objectives for rivers and lakes in the Mole river catchment

	Proposed status/potential objective				
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	0	0	12	12	12
Lakes	0	0	0	0	0
Heavily modified water bodies	2	2	10	8	10
Artificial water bodies	1	1	1	0	1

Figure B.13.2 River and lake water bodies in the Mole river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Mole catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Waterbody Category and Map Code.: River - R1 Surveillance site: No

Waterbody ID and Name: GB106039017460 Ifield Brook

National Grid Reference: TQ 24538 37067

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Other, Recreation, Urbanisation

Downstream Waterbody ID: GB106039017480

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Current status (and Element **Predicted Status by**

certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Fish Poor Poor (Very Certain) Not Required (MS)

Supporting elements

Current status (and Predicted Status by Justification for not achieving Element certainty of less than good status by 2015 2015

good)

Ammonia (Phys-Chem) High

Dissolved Oxygen

Poor (Uncertain)

High Poor

Disproportionately expensive

High pΗ High

Phosphate Moderate (Uncertain)

Moderate

Disproportionately expensive

(P1a)

(DO1a)

Temperature Good Good Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Supports Good Supports Good

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving 2015 good status by 2015

Mitigation Measures

Assessment

Moderate Moderate

Disproportionately expensive (M2d), Technically infeasible

(M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Preserve and, where possible, restore historic aquatic habitats	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-engineering of the river where the flow regime cannot be modified.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R2 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017470 **Baldhorns Brook**

National Grid Reference: TQ 22940 37093

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Good by 2027 Status Objective (Overall):

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017480

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than 2015 good status by 2015

Supports Good

good)

Invertebrates Poor Poor (Very Certain) Technically infeasible (B2a, B2j)

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty

Does not require assessment that status is less than good)

Waterbody Category and Map Code.: River - R3 Surveillance site: No

Waterbody ID and Name: GB106039017480 Mole (Crawley to Gatwick Airport)

National Grid Reference: TQ 25949 39242

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017510

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by**

certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Moderate Invertebrates Moderate (Uncertain) Technically infeasible (B2a, B2p)

Supporting elements

Current status (and **Predicted Status by** Justification for not achieving Element certainty of less than 2015 good status by 2015

High

High

good)

Ammonia (Phys-Chem) High

Dissolved Oxygen Poor (Very Certain) Poor

pΗ High

Phosphate Moderate (Very Certain) Moderate

Temperature Good Good Ammonia (Annex 8) High High

Technically infeasible (DO2b)

Disproportionately expensive

(P1a)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R4 Surveillance site: No

Waterbody ID and Name: GB106039017500 Tilgate Brook, Gatwick Stream and Crawters Brook

National Grid Reference: TQ 29153 39585

at Crawley

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Other, Urbanisation

Downstream Waterbody ID: GB106039017621

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Poor Poor (Very Certain) Not Required (MS) Bad (Very Certain) Bad Invertebrates Not Required (MS)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High pН High High Phosphate Good Good Temperature High High Copper High High Zinc High High Ammonia (Annex 8) Good Good

good)

good status by 2015

Supporting conditions

Element Predicted Status by Current status (and certainty of less than 2015

good)

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Justification for not achieving good status by 2015

Ecological Potential Assessment

Element Current status Predicted Status by

Moderate

2015 good status by 2015

Mitigation Measures

Assessment

Moderate

Disproportionately expensive (M2d), Technically infeasible

Justification for not achieving

(M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-engineering of the river where the flow regime cannot be modified.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R5 Surveillance site: No

Waterbody ID and Name: GB106039017510 Mole at Gatwick Airport

National Grid Reference: TQ 27133 41617

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039017621

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good Invertebrates Moderate (Quite Certain) Good

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Moderate (Very Certain) Good

High

good)

pН

Ammonia (Annex 8)

Supporting conditions

High

Phosphate

Moderate (Very Certain)

Moderate

Temperature

Moderate (Uncertain)

Good High

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

Disproportionately expensive

good status by 2015

(P1a)

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Predicted Status by Element Current status Justification for not achieving good status by 2015

2015

Mitigation Measures

Assessment

Good Good

Environment Agency, Annex B Thames River Basin District, December 2009

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Set-back embankments	In Place
Flood bunds (earth banks, in place of floodwalls)	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R6 Surveillance site: No

Waterbody ID and Name: GB106039017520 Burstow Stream

National Grid Reference: TQ 30325 44112

Current Overall Status Bad

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017621

Ecological Status

Current Status (and certainty that status is less than good)

Bad (Very Certain)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Poor	Technically infeasible (B2a)
Invertebrates	Bad (Very Certain)	Bad	Technically infeasible (B2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Supports Good	Supports Good	
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

River - R7 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039017540 Salfords Stream (Salfords to River Mole

confluence)

National Grid Reference: TQ 28505 46747

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017621

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate (Quite Certain) Moderate Technically infeasible (B2a) Poor (Very Certain) Poor Technically infeasible (B2a) Invertebrates

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015

good)

High

good status by 2015

Ammonia (Phys-Chem) High Dissolved Oxygen Moderate (Uncertain) Good pН High

Phosphate Poor (Very Certain) Poor

Disproportionately expensive

(P1a)

Temperature Good Good Copper High High Zinc High High

High

Ammonia (Annex 8)

High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Quantity and Dynamics of Supports Good

Flow

Morphology

Supports Good

good status by 2015

Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R8 Surveillance site: No

Waterbody ID and Name: GB106039017560 Salfords Stream (Redhill Brook confluence

upstream)

National Grid Reference: TQ 33066 47842

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017540

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Ammonia (Phys-Chem)

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

High

Dissolved Oxygen Moderate (Uncertain) Moderate Disproportionately expensive

(DO1a)

pH High High

High

Phosphate Poor (Uncertain) Poor Disproportionately expensive (P1a)

Temperature Good Good Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

and)

good)

Quantity and Dynamics of Supports Good Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

River - R9 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039017570 Tanners Brook (Holmewood to River Mole

confluence at Brockham) **National Grid Reference:** TQ 19369 48558

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017621

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

good status by 2015 certainty of less than 2015

good)

Fish Poor Poor (Very Certain) Technically infeasible (B2a)

Supporting elements

Predicted Status by Current status (and Justification for not achieving Element

> certainty of less than 2015 good status by 2015

good)

Moderate (Uncertain) Ammonia (Phys-Chem) Moderate Disproportionately expensive

(A1a)

Dissolved Oxygen High High High pН High

Phosphate Poor (Uncertain) Poor Disproportionately expensive

(P1a) Temperature High High

Ammonia (Annex 8) Moderate (Uncertain) Moderate Disproportionately expensive

(A1a)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Does not Support Good Does not Support Quantity and Dynamics of Disproportionately expensive

(Uncertain) Good

Flow (HR2a) Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R10 Surveillance site: No

Waterbody ID and Name: GB106039017580 Pipp Brook

National Grid Reference: TQ 13576 47620

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017621

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate (Quite Certain) Moderate Disproportionately expensive

(M5a), Technically infeasible

(B2p)

Invertebrates Moderate Moderate (Uncertain) Technically infeasible (B2p)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High Moderate (Quite Certain) Good Phosphate Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015

good)

good status by 2015

Quantity and Dynamics of

Flow Morphology Does not Support Good (Uncertain)

Supports Good

Does not Support Good

Supports Good

Disproportionately expensive

(HR2a)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R11 Surveillance site: No

Waterbody ID and Name: GB106039017590 Redhill Brook

National Grid Reference: TQ 29041 51217

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified
Reason for Designation: Urbanisation

Downstream Waterbody ID: GB106039017540

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element	Element Current status (and certainty of less than good)		Justification for not achieving good status by 2015	
Fish	Poor (Very Certain)	Poor	Disproportionately expensive (HR2a)	
Invertebrates	Good	Good	,	
Phytobenthos	Poor (Very Certain)	Poor	Disproportionately expensive (P1b)	

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1b)
Temperature	High	High	,
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015	
Quantity and Dynamics of Flow	Does not Support Good (Uncertain)	Does not Support Good	Disproportionately expensive (HR2a)	

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3b) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-engineering of the river where the flow regime cannot be modified.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R12 Surveillance site: No

Waterbody ID and Name: GB106039017600 Downside Ditches and Bookham Brook

National Grid Reference: TQ 12001 55453

Current Overall Potential Good

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Wider Environment

GB106039017621 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Moderate Invertebrates Moderate (Uncertain) Not Required (MS)

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Phosphate Good Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Supports Good

Supports Good

Ecological Potential Assessment

Element **Current status** **Predicted Status by** 2015

Justification for not achieving

Mitigation Measures

Assessment

Good

Good

good status by 2015

Chemical Status

Current Status (and certainty that status is less than good)

River - R13 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017650 Rythe

National Grid Reference: TQ 15213 65693

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023232

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Element **Current status (and** **Predicted Status by** 2015

Justification for not achieving

good)

good)

Fish High good status by 2015

High

Supporting conditions

Element **Current status (and**

certainty of less than

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Predicted Status by Justification for not achieving **Element Current status** 2015

good status by 2015

Mitigation Measures

Assessment

Moderate Moderate

Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-engineering of the river where the flow regime cannot be modified.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R14 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017490 Man's Brook (Charlwood to Gatwick Airport)

National Grid Reference: TQ 25228 41075

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017510

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than

good)

2015 good status by 2015

(P1a)

Ammonia (Phys-Chem) High High Dissolved Oxygen Moderate (Uncertain) Good High High

pΗ

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive

Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Supports Good

Flow Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R15 Surveillance site: No

Waterbody ID and Name: GB106039017530 Deanoak Brook

National Grid Reference: TQ 22276 44389

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017621

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Moderate Fish Moderate (Uncertain) Technically infeasible (B2a, B2p)

Supporting elements

Current status (and **Predicted Status by** Justification for not achieving Element

certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Moderate (Uncertain) Moderate Disproportionately expensive

(A1a) Dissolved Oxygen High High

High High pН

Phosphate Poor (Uncertain) Poor Disproportionately expensive (P1a)

Temperature High High

Moderate Ammonia (Annex 8) Moderate (Uncertain) Disproportionately expensive

(A1a)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Quantity and Dynamics of Supports Good Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R16 Surveillance site: No

Waterbody ID and Name: GB106039017610 The Rye at Ashtead

National Grid Reference: TQ 15694 57791

Poor **Current Overall Potential**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039017620

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Poor Fish Poor (Very Certain) Disproportionately expensive

(HR2a)

(P1a)

Supporting elements

Current status (and **Predicted Status by** Justification for not achieving Element certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pΗ High High

Phosphate Moderate (Very Certain) Moderate Disproportionately expensive

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Flow

Assessment

Element Current status (and Predicted Status by Justification for not achieving

2015

certainty of less than

good)

Does not Support Good (Uncertain) Good

Does not Support

good status by 2015

Disproportionately expensive

(HR2a)

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving good status by 2015 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Preserve and, where possible, restore historic aquatic habitats	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R17

Waterbody ID and Name: GB106039017550 Leigh Brook

National Grid Reference: TQ 22202 45668

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017621

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Poor Poor (Very Certain) Technically infeasible (B2a) Poor (Very Certain) Moderate Technically infeasible (B2I) Invertebrates

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) Bad (Very Certain) Good Dissolved Oxygen Moderate (Uncertain) Good pН High

Bad (Very Certain) Phosphate

Bad

Disproportionately expensive

(P1b)

Temperature High High

Good Ammonia (Annex 8) Bad (Very Certain)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Supports Good Supports Good Morphology

Chemical Status

Current Status (and certainty Does not require assessment

Surveillance site: No Waterbody Category and Map Code.: River - R18

Waterbody ID and Name: GB106039017450 Stanford Brook

National Grid Reference: TQ 28813 34514

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017500

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate Moderate (Uncertain) Technically infeasible (B2a)

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High pΗ High High Good Phosphate Good Temperature High High Ammonia (Annex 8) Good Good

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of Supports Good

Flow

Supports Good Morphology Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R19 Surveillance site: No

Waterbody ID and Name: GB106039017622 Mole (Hersham to R. Thames conf at East

National Grid Reference: TQ 15093 68015

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Molesey)

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023232

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Fish Good Good Good Good Invertebrates

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High pН High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

Temperature High High Arsenic High High Copper High High Iron High High Permethrin High High Zinc High High Ammonia (Annex 8) Good Good (P1c)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than 2015 good status by 2015

Supports Good

Quantity and Dynamics of Supports Good

Flow

Environment Agency, Annex B Thames River Basin District, December 2009

good)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3b) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Set-back embankments	Not In Place
Increase in-channel morphological diversity	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Re-engineering of the river where the flow regime cannot be modified.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Tributyltin Compounds	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R20 Surveillance site: No

Waterbody ID and Name: <u>GB106039017621</u> Mole (Horley to Hersham)

National Grid Reference: TQ 23351 48138

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017622

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015	
Fish	Poor (Very Certain)	Poor	Disproportionately expensive (M5a)	
Invertebrates	Good	Good	,	
Phytobenthos	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)	

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015	
Ammonia (Phys-Chem)	Moderate (Uncertain)	Moderate	Disproportionately expensive (A1a)	
Dissolved Oxygen	High	High		
рН	High	High		
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)	
Temperature	High	High		
Arsenic	High	High		
Copper	High	High		
Iron	High	High		
Zinc	High	High		
Ammonia (Annex 8)	Moderate (Uncertain)	Moderate	Disproportionately expensive (A1a)	

Supporting conditions

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Flow

Supports Good

good)

Supports Good

Morphology

Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving good status by 2015

Lead And Its Compounds High High
Nickel And Its Compounds High High

Waterbody Category and Map Code.: Lake - L1 Surveillance site: No

Waterbody ID and Name: GB30642841 Island Barn Reservoir

National Grid Reference: TQ 13889 67016

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: Lake - L2 Surveillance site: No

Waterbody ID and Name: GB30643054 Black Pond

National Grid Reference: TQ 12886 62208

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

B.14 North Kent river catchment

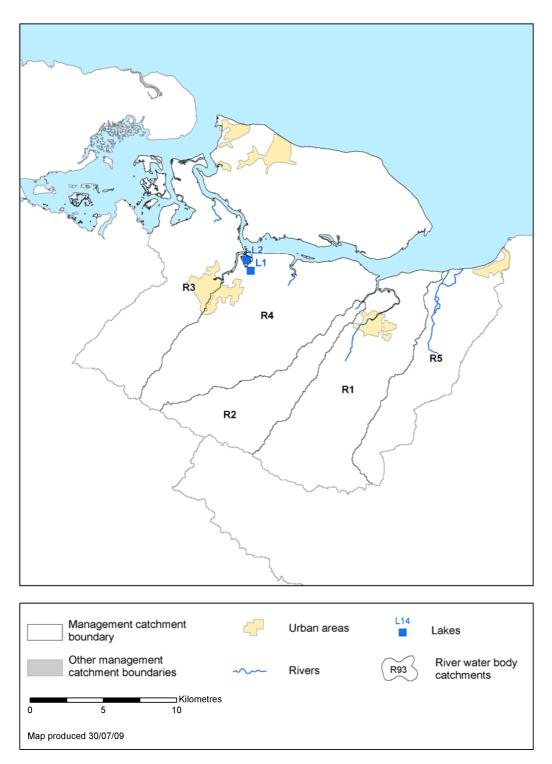
Rivers and Lakes

There are 5 river water bodies (of which 4 are designated as heavily modified) and 2 lake water bodies (which are designated as artificial) within the North Kent river catchment.

Figure B.14.1 Status objectives for rivers and lakes in the North Kent river catchment

Proposed status/potential objective					
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	0	0	1	1	1
Lakes	0	0	0	0	0
Heavily modified water bodies	1	1	4	3	4
Artificial water bodies	0	0	2	2	2

Figure B.14.2 River and lake water bodies in the North Kent river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the North Kent catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Waterbody Category and Map Code.: River - R1 Surveillance site: No

Waterbody ID and Name: GB106040018530 Dry valley south of Faversham

National Grid Reference: TR 00079 60462

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive, Shellfish Water Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530604011500

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015 good status by 2015

Dissolved Oxygen Good Good High High pН Temperature High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

(Quite Certain) Good (HR4a) Flow

Ecological Potential Assessment

Predicted Status by Justification for not achieving **Element Current status** 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Appropriate timing (vegetation control)	Not In Place
Appropriate vegetation control technique	Not In Place
Selective vegetation control regime	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R2 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106040018540 Dry valley south west of Faversham

National Grid Reference: TR 00501 62535

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530604011500

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

Good

certainty of less than good status by 2015

good)

Quantity and Dynamics of Does not Support Good

Flow

(Quite Certain) Morphology Supports Good Supports Good

Does not Support Disproportionately expensive

(HR4a)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R3 Surveillance site: No

Waterbody ID and Name: GB106040018600 lwade

National Grid Reference: TQ 90499 69125

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530604011500

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting conditions

Quantity and Dynamics of

Element	Current status (and	Predicted Status by	Justification for not achieving
	certainty of less than	2015	good status by 2015

good)

(Uncertain)

Does not Support Good Does not S

Does not Support Good Disproportionately expensive

(HR2a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Flow

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Appropriate timing (vegetation control)	Not In Place
Appropriate vegetation control technique	Not In Place
Selective vegetation control regime	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Improve floodplain connectivity	Not In Place
Set-back embankments	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R4 Surveillance site: No

Waterbody ID and Name: GB106040018550 Dry valley south of Sittingbourne

National Grid Reference: TQ 95939 64317

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive, Shellfish Water Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB530604011500

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

Flow (Quite Certain) Good (HR4a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

nt Status (and certainty Does not require assessment

Surveillance site: No Waterbody Category and Map Code.: River - R5

Waterbody ID and Name: GB106040018560 White Drain

National Grid Reference: TR 05235 59769

Current Overall Potential Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Bathing Water Directive, Natura 2000 (Habitats and/or Birds Directive),

Nitrates Directive, Shellfish Water Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530604011500

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015 2015

Fish Poor (Very Certain) Poor

Disproportionately expensive (HR4a)

Invertebrates Moderate (Quite Certain) Moderate Disproportionately expensive

(HR4a)

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015

good)

good status by 2015

Ammonia (Phys-Chem) High High

Dissolved Oxygen Poor (Quite Certain)

Poor

Disproportionately expensive

(DO1a)

High pΗ High

Disproportionately expensive

Phosphate Moderate (Quite Certain) Moderate

High

High

(P1a)

High High High High High

Ammonia (Annex 8) High

Supporting conditions

Temperature

Copper

Zinc

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

good status by 2015

Quantity and Dynamics of Does not Support Good Does not Support Flow (Quite Certain) Good

Disproportionately expensive (HR4a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)
Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Appropriate timing (vegetation control)	Not In Place
Appropriate vegetation control technique	Not In Place
Selective vegetation control regime	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Improve floodplain connectivity	Not In Place
Set-back embankments	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6

Lake - L1 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30642956 Murston Lakes, angling lakes

National Grid Reference: TQ 93072 64939

Current Overall Potential Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Artificial

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Poor Phytoplankton Poor (Very Certain) Disproportionately expensive

(P1a)

Supporting elements

Current status (and **Predicted Status by** Justification for not achieving **Element** certainty of less than 2015 good status by 2015

good)

Total Phosphorus Poor (Very Certain) Poor Disproportionately expensive

(P1a)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Predicted Status by Element **Current status** Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

Lake - L2 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30642923 Murston Lakes, nature reserve

National Grid Reference: TQ 92800 65677

Current Overall Potential Bad

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Artificial

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Bad (Very Certain - WoE)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015 good status by 2015

Bad Phytoplankton Bad (Very Certain) Technically infeasible (P2a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Total Phosphorus Bad (Very Certain) Bad Technically infeasible (P2a)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving

2015

good status by 2015

Mitigation Measures

Assessment

Good Good

Chemical Status

Current Status (and certainty that status is less than good)

B.15 Roding, Beam & Ingrebourne river catchments

Rivers and Lakes

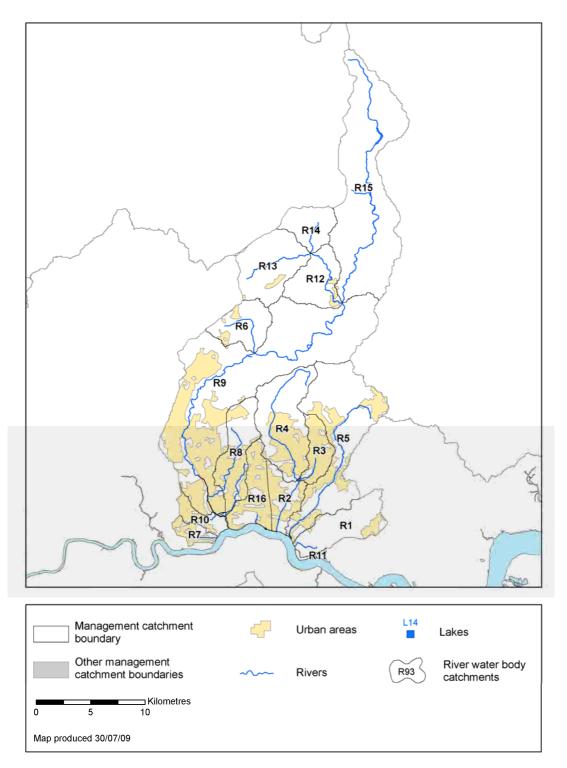
There are 16 river water bodies (of which 7 are designated as heavily modified) within the Roding, Beam & Ingrebourne river catchments. There are no lake water bodies.

Figure B.15.1 Status objectives for rivers and lakes in the Roding, Beam & Ingrebourne river catchments

	Proposed status/potential objective					
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies	
Rivers	0	0	9	9	9	
Lakes	0	0	0	0	0	
Heavily modified water bodies	0	0	7	7	7	
Artificial water bodies	0	0	0	0	0	

Figure B.15.2 River and lake water bodies in the Roding, Beam & Ingrebourne river catchments

Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Roding, Beam & Ingrebourne catchments

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

(Ingrebourne)

River - R1 Waterbody Category and Map Code.: Surveillance site: No

Southall Sewer and Runningwater Brook Waterbody ID and Name: GB106037028090

National Grid Reference: TQ 52500 80012

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530603911400

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving 2015 good status by 2015

certainty of less than

good)

High

High

Ammonia (Phys-Chem) High

Dissolved Oxygen Bad (Very Certain) Bad

pΗ High

Phosphate Moderate (Uncertain) Moderate

Temperature High High Ammonia (Annex 8) High High Disproportionately expensive

Technically infeasible (DO2a)

(P1a)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R2 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106037028100 Rom / Beam (from Ravensbourne confluence to

National Grid Reference: TQ 50707 83863

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Heavily Modified Hydromorphological Designation: Reason for Designation: Urbanisation

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

(A1a)

Fish Poor (Very Certain) Poor Not Required (MS)

Good Invertebrates Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Poor (Quite Certain)	Poor	Disproportionately expensive (A1a)
Dissolved Oxygen	Poor (Very Certain)	Poor	Technically infeasible (DO2b)
pН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	Poor (Quite Certain)	Poor	Disproportionately expensive

Supporting conditions

Current status (and Element Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Supports Good

Quantity and Dynamics of Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3b)
Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure

Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone
Preserve and, where possible, restore historic aquatic habitats

Not In Place

Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution

Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

River - R3 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106037028110 Ravensbourne

National Grid Reference: TQ 53163 86751

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106037028100

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Poor (Uncertain)	Poor	Disproportionately expensive (A1a)
Dissolved Oxygen	Poor (Uncertain)	Poor	Disproportionately expensive (DO1a)
pН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	Poor (Uncertain)	Poor	Disproportionately expensive (A1a)

Supporting conditions

Element Predicted Status by Justification for not achieving Current status (and certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving 2015 good status by 2015 Moderate

Mitigation Measures

Assessment

Moderate

Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Remove obsolete structure	Not In Place
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R4 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106037028120 Rom / Beam (Including Bourne Brook, from

Watton's Green to confluence with **National Grid Reference:** TQ 49763 92159

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106037028100

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

> certainty of less than 2015 good status by 2015

good)

Fish Poor Poor (Very Certain) Technically infeasible (B2a, B2p)

Invertebrates Moderate (Quite Certain) Moderate Technically infeasible (B2a, B2p)

Supporting conditions

Quantity and Dynamics of

Element Current status (and **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

Supports Good

good status by 2015

Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R5 Surveillance site: Yes

Waterbody ID and Name: GB106037028130 Ingrebourne

National Grid Reference: TQ 55917 87780

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530603911400

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Uncertain)	Moderate	Disproportionately expensive (B1a), Technically infeasible (B2a, B2p)
Invertebrates	Poor (Very Certain)	Poor	Technically infeasible (B2a, B2p)
Macrophytes	Poor (Very Certain)	Poor	Disproportionately expensive (P1e), Technically infeasible (B2p)
Phytobenthos	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1e)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Good	Good	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Bad (Very Certain)	Bad	Disproportionately expensive (P1e)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	Good	Good	

Supporting conditions

Element Current status (and predicted Status by certainty of less than 2015 Justification for not achieving good status by 2015

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

Waterbody Category and Map Code.: River - R6 Surveillance site: Yes

Waterbody ID and Name: GB106037028150 **Brookhouse Brook**

National Grid Reference: TL 47722 00612

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106037028180

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain - WoE)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Good Invertebrates Moderate (Very Certain)

Poor (Very Certain) Macrophytes

Moderate

Disproportionately expensive

(P5a), Technically infeasible

(B2p)

Moderate Disproportionately expensive Phytobenthos Moderate (Very Certain)

(P5a)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

Poor (Very Certain)

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High

Dissolved Oxygen High рΗ

High

High High

> Poor Disproportionately expensive

(P5a), Technically infeasible (P2b)

Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than good status by 2015 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Phosphate

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R7 Surveillance site: No Waterbody Category and Map Code.:

Thames, Creekhead, Trinity, Wylees Sewers Waterbody ID and Name: GB106037028160

National Grid Reference: TQ 43441 80890

Current Overall Potential Moderate Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Poor (Very Certain)	Poor	Technically infeasible (A2a)
Dissolved Oxygen	Poor (Very Certain)	Poor	Technically infeasible (DO2a)
pН	High	High	
Phosphate	Bad (Very Certain)	Bad	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	Poor (Very Certain)	Poor	Technically infeasible (A2a)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015 Moderate

Mitigation Measures

Assessment

Moderate

Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R8 Surveillance site: No

Waterbody ID and Name: Seven Kings Water GB106037028170

National Grid Reference: TQ 45793 87306

Moderate **Current Overall Potential**

(For Protected Area Objectives see Annex D) Good by 2027 Status Objective (Overall):

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

Moderate (Uncertain)

good)

Moderate Disproportionately expensive

(HR2a)

Supporting elements

Fish

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Poor (Quite Certain)	Poor	Disproportionately expensive (A1a)
Dissolved Oxygen	Bad (Very Certain)	Bad	Disproportionately expensive (DO5a), Technically infeasible (DO2b)
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	,
2,4-dichlorophenol	High	High	
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	High	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Permethrin	High	High	
Toluene	High	High	
Zinc	High	High	
Ammonia (Annex 8)	Poor (Quite Certain)	Poor	Disproportionately expensive (A1a)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good) Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive (Uncertain) Good (HR2a) Flow

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Assessment Moderate Predicted Status by 2015

Moderate Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate timing (vegetation control)	In Place
Selective vegetation control regime	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate vegetation control technique	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Remove obsolete structure	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Very Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Atrazine	High	High	
Benzene	High	High	
Diuron	Moderate (Very Certain)	High	
Lead And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Tributyltin Compounds	High	High	
Trifluralin	High	High	

Waterbody Category and Map Code.: River - R9 Surveillance site: Yes

Waterbody ID and Name: GB106037028180 Roding (Cripsey Brook to Loxford Water)

National Grid Reference: TQ 42080 93460

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation, Wider Environment

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Quite Certain)	Moderate	Not Required (MS)
Invertebrates	Moderate (Very Certain)	Moderate	Not Required (MS)
Macrophytes	Moderate (Very Certain)	Moderate	Not Required (MS)
Phytobenthos	Poor (Very Certain)	Moderate	Disproportionately expensive (P1e), Technically infeasible (S2d)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1e)
Temperature	High	High	
2,4-dichlorophenol	High	High	
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	High	High	
Diazinon	High	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Permethrin	High	High	
Toluene	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Flow

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of	Supports Good	Supports Good	

Ecological Potential Assessment

Element	Current status	Predicted Status by 2015	Justification for not achieving good status by 2015
Mitigation Measures Assessment	Moderate	Moderate	Disproportionately expensive (M2c), Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate timing (vegetation control)	In Place
Selective vegetation control regime	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate vegetation control technique	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Remove obsolete structure	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Quite Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzene	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Moderate (Uncertain)	Moderate	Technically infeasible (C2a)
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Chlorfenvinphos	High	High	
Diuron	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Isoproturon	Moderate (Quite Certain)	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Tributyltin Compounds	Moderate (Uncertain)	Moderate	Technically infeasible (C2a)
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R10 Surveillance site: No

Waterbody ID and Name: GB106037028210 Whitings Sewer (lower, Roding)

National Grid Reference: TQ 44135 82747

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

Supports Good

good status by 2015

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R11

Wennington Branch Sewer (Ingrebourne) Waterbody ID and Name: GB106037028220

National Grid Reference: TQ 53513 79236

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good Supports Good

Quantity and Dynamics of Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R12 Surveillance site: No

Waterbody ID and Name: GB106037033470 Cripsey Brook (bottom section)

National Grid Reference: TL 54928 04643

Bad **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106037028180

Ecological Status

Current Status (and certainty that status is less than good) Bad (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good Invertebrates Bad (Very Certain) Good

Phytobenthos Poor (Very Certain) Moderate Disproportionately expensive

(P1a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High High High pН

Phosphate Poor (Very Certain) Poor Disproportionately expensive

(P1a)

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) Good Good

Supporting conditions

Quantity and Dynamics of

Current status (and **Predicted Status by** Justification for not achieving Flement good status by 2015

certainty of less than 2015

good)

Supports Good Supports Good

Flow Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R13 Surveillance site: No

Waterbody ID and Name: GB106037033480 Cripsey Brook (top section)

National Grid Reference: TL 49976 06288

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106037033470

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Good Invertebrates Good

Phytobenthos Moderate Poor (Very Certain) Disproportionately expensive

(P1a)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

(P1a)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of

Flow

Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R14 Surveillance site: No

Waterbody ID and Name: GB106037033490 Higher Laver Brook

National Grid Reference: TL 53063 08454

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106037033470

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Good	Good	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	Good	Good	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Does not Support Good (Uncertain)	Does not Support Good	Disproportionately expensive (HR2a)
Morphology	Supports Good	Supports Good	(i ii Za)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R15 Surveillance site: No

Waterbody ID and Name: GB106037033500 Roding (upper, Roding to Norton Ditch)

National Grid Reference: TL 58330 22974

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Land Drainage, Urbanisation, Wider Environment

Downstream Waterbody ID: GB106037028180

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Quite Certain)	Moderate	Not Required (MS)
Invertebrates	Moderate (Quite Certain)	Moderate	Not Required (MS)
Phytobenthos	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1a)
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Supports Good	Supports Good	

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Mitigation Measures Moderate Moderate Disproportionately expensive Assessment (M2c), Technically infeasible (M3a, M3b, M3c)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Remove obsolete structure	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R16 Surveillance site: No

Waterbody ID and Name: GB106037028140 Mayes Brook East/Gores Brook

National Grid Reference: TQ 48091 82593

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

Flow (Quite Certain) Good (HR4a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Technically infeasible (M3a, M3b) Mitigation Measures

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Remove obsolete structure	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

B.16 South West Essex river catchment

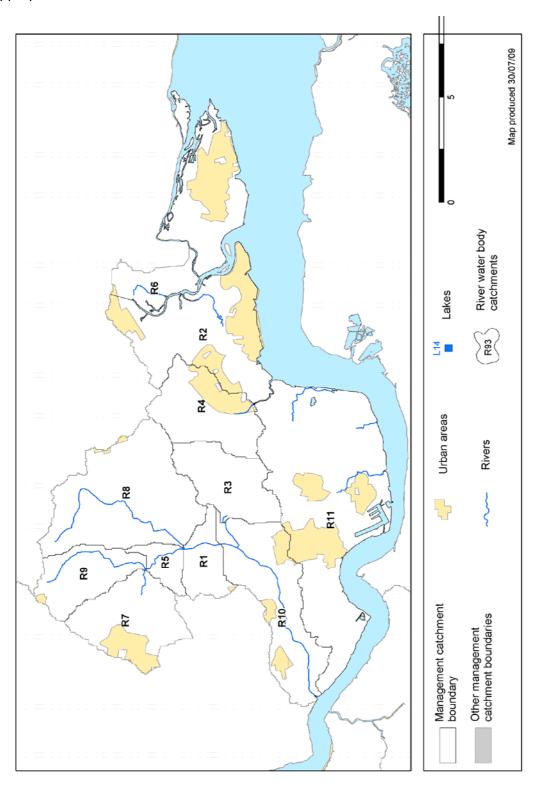
Rivers and Lakes

There are 11 river water bodies (of which 4 are designated as heavily modified) within the South West Essex river catchment. There are no lake water bodies.

Figure B.16.1 Status objectives for rivers and lakes in the South West Essex river catchment

	Proposed status/potential objective				
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	0	0	7	7	7
Lakes	0	0	0	0	0
Heavily modified water bodies	1	1	4	3	4
Artificial water bodies	0	0	0	0	0

Figure B.16.2 River and lake water bodies in the South West Essex river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the South West Essex catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Waterbody Category and Map Code.: River - R1 Surveillance site: No

Waterbody ID and Name: GB106037027990 Mardyke

National Grid Reference: TQ 62046 83702

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106037028200

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good

Dissolved Oxygen Bad (Uncertain) Bad Disproportionately expensive

(DO1a)

pH High High

Phosphate Bad (Uncertain) Bad Disproportionately expensive (P1a)

Temperature High High

Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R2

Waterbody ID and Name: GB106037028010 Mardyke and Fobbing

National Grid Reference: TQ 73241 83539

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Land Drainage

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Quantity and Dynamics of

Flow

Supports Good Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Moderate Moderate Mitigation Measures Technically infeasible (M3c)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R3 Surveillance site: No

Waterbody ID and Name: GB106037028020 Mardyke and Fobbing

National Grid Reference: TQ 63154 83119

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106037028200

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Dissolved Oxygen Moderate (Uncertain) Moderate Disproportionately expensive

(DO1a)

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive

(P1a)

Disproportionately expensive

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support

Flow (Uncertain) Good (HR2a)
Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R4 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106037028030 Mardyke and Fobbing

National Grid Reference: TQ 68352 81969

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Quantity and Dynamics of

Element	Current status (and	Predicted Status by	Justification for not achieving
	certainty of less than	2015	good status by 2015

certainty of less than good)

Does not Support

Disproportionately expensive

Does not Support Good (Uncertain) Good (HR2a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Moderate Moderate Mitigation Measures Technically infeasible (M3a)

Assessment

Flow

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Sediment management strategies (develop and revise)	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R5

Waterbody ID and Name: GB106037028040 Mardyke (West Tributary)

National Grid Reference: TQ 61516 86031

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106037027990

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good

Poor Technically infeasible (B2h, Invertebrates Poor (Very Certain)

INNS2a, S2b)

Supporting elements

Phosphate

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than

good)

Ammonia (Phys-Chem) Moderate (Quite Certain)

good status by 2015

Good

Dissolved Oxygen Moderate (Uncertain) Moderate

Disproportionately expensive

(DO1a)

pН High High

Poor (Very Certain)

Poor

High

High

Good

Disproportionately expensive

Temperature High High Copper High High

Iron High Zinc High

Ammonia (Annex 8) Moderate (Quite Certain)

Element Current status (and certainty of less than

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Supporting conditions

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

good)

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Element Current status (and

certainty of less than

good)

Nickel And Its Compounds High **Predicted Status by**

High

2015

Justification for not achieving

good status by 2015

River - R6 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106037028050 Pitsea Hall Fleet

National Grid Reference: TQ 74146 86785

Current Overall Potential Good

Status Objective (Overall): Good by 2015

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good Supports Good

Quantity and Dynamics of Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015

Good Good Mitigation Measures

Assessment

Chemical Status

Current Status (and certainty that status is less than good) Does not require assessment

good status by 2015

Waterbody Category and Map Code.: River - R7 Surveillance site: No

Waterbody ID and Name: <u>GB106037028060</u> Mardyke

National Grid Reference: TQ 60219 86804

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106037028040

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and

good)

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Phosphate Moderate (Uncertain) Moderate Disprc

Disproportionately expensive

(P1a)

Supporting conditions

Element Current status (and

certainty of less than

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

good)

Supports Good

Predicted Status by

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R8 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106037028070 Mardyke (East Tributary)

National Grid Reference: TQ 63960 88334

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106037027990

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

good status by 2015 certainty of less than 2015

good)

Fish Good Good

Poor Technically infeasible (B2h, Invertebrates Poor (Very Certain)

INNS2a, S2b)

good status by 2015

Supporting elements

Ammonia (Phys-Chem)

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

High High

Dissolved Oxygen Moderate (Uncertain) Moderate Disproportionately expensive

(DO1a) pН High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Flow

Element Predicted Status by Justification for not achieving **Current status (and**

2015

certainty of less than

good)

Supports Good Supports Good

Morphology Does not Support Good Does not Support Technically infeasible (M1j)

Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R9 Surveillance site: No

Waterbody ID and Name: GB106037028080 Mardyke (West Tributary)

National Grid Reference: TQ 61705 89152

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106037028040

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive

(P1a)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not r that status is less than good)

Waterbody Category and Map Code.: River - R10 Surveillance site: Yes

Waterbody ID and Name: GB106037028200 Mardyke

National Grid Reference: TQ 59147 80256

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530603911400

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Fish

Invertebrates

Element Current status (and certainty of less than Predicted Status by 2015 Justification for not achieving good status by 2015

good)

High High Good Good

Macrophytes Poor (Very Certain) Poor Technically infeasible (INNS2a,

P2b)

Phytobenthos Poor (Very Certain) Poor Technically infeasible (B2p, P2b)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good

Dissolved Oxygen Bad (Very Certain) Moderate Technically infeasible (DO2b)

pH High High

Phosphate Bad (Very Certain) Bad Technically infeasible (P2b)

Temperature High High
Copper High High
Iron High High
Zinc High High
Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Trichlorobenzenes	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

Waterbody Category and Map Code.: River - R11 Surveillance site: No

Waterbody ID and Name: GB106037027970 Mardyke and Fobbing

National Grid Reference: TQ 69182 79364

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

Flow (Quite Certain) Good (HR4a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status	
Sediment management strategies (develop and revise)	In Place	
Retain marginal aquatic and riparian habitats (channel alteration)	In Place	
Appropriate techniques (invasive species)	In Place	
Appropriate timing (vegetation control)	In Place	
Appropriate vegetation control technique	In Place	
Selective vegetation control regime	In Place	
Increase in-channel morphological diversity	Not In Place	

Chemical Status

Current Status (and certainty that status is less than good)

B.17 Thame river catchment

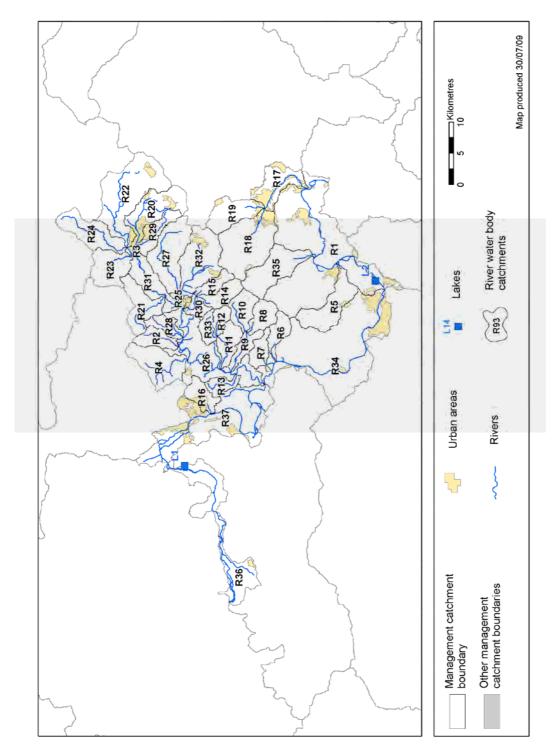
Rivers and Lakes

There are 37 river water bodies (of which 7 are designated as heavily modified and 1 as artificial) and 2 lake water bodies (both of which are designated as artificial) within the Thame river catchment.

Figure B.17.1 Status objectives for rivers and lakes in the Thame river catchment

	Proposed status/potential objective				
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	2	2	29	27	29
Lakes	0	0	0	0	0
Heavily modified water bodies	0	0	7	7	7
Artificial water bodies	1	1	3	2	3

Figure B.17.2 River and lake water bodies in the Thame river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Thame catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Surveillance site: No Waterbody Category and Map Code.: River - R1

Waterbody ID and Name: GB106039023233 Thames (Reading to Cookham)

National Grid Reference: SU 86126 85870

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Navigation, Water Storage - non-specific

Downstream Waterbody ID: GB106039023231

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and

Predicted Status by certainty of less than

2015

Justification for not achieving

good status by 2015

High Fish High Invertebrates Good Good

good)

Supporting elements

Temperature

Arsenic

Copper

Iron

Zinc

Current status (and Element

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

High

Phosphate

Moderate (Very Certain) Moderate

High High

High High High High

High High

High High High Disproportionately expensive (P1c)

Ecological Potential Assessment

Element Current status

Predicted Status by 2015

Justification for not achieving good status by 2015

Mitigation Measures Assessment

Ammonia (Annex 8)

Moderate

Moderate

Technically infeasible (M3g)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Reduce sediment resuspension	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Bank rehabilitation / reprofiling	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Reduce impact of dredging	Not In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	Not In Place
Alter timing of dredging / disposal	Not In Place
Sediment management	Not In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	Not In Place
Manage disturbance	Not In Place
Modify vessel design	Not In Place
Vessel Management	Not In Place
Lateral zoning to concentrate boats within a central track	Not In Place
Prepare a dredging / disposal strategy	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Waterbody Category and Map Code.: River - R2 Surveillance site: No

Waterbody ID and Name: GB106039030340 Worminghall Brook and tributaries

National Grid Reference: SP 65191 09815

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030240

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Moderate Invertebrates Moderate (Uncertain) Disproportionately expensive

(P1b), Technically infeasible

(B2p)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High pН High High Phosphate Poor (Quite Certain) Poor

High

Temperature High Ammonia (Annex 8) Good Good good status by 2015

Disproportionately expensive

(P1b)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good

Quantity and Dynamics of

Flow

Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R3 Surveillance site: No

Waterbody ID and Name: GB106039030350 Bear Brook, Hartwell Ditch, at west Aylesbury

National Grid Reference: SP 78853 14508

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Artificial **Hydromorphological Designation:**

Reason for Designation: Flood Protection, Land Drainage, Urbanisation

GB106039030370 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

good)

Fish Poor (Very Certain) Moderate

Not Required (MS)

Supporting elements

Current status (and Element

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem)

High

High

High pΗ

Poor (Uncertain)

High Poor

High

High

High

Disproportionately expensive

(P1a)

Temperature

Phosphate

Dissolved Oxygen

High

High

Ammonia (Annex 8) High

Supporting conditions

Current status (and Element certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status **Predicted Status by** 2015

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Good

Good

Environment Agency, Annex B Thames River Basin District, December 2009

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R4 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039030360 Holton Brook and tributaries

National Grid Reference: SP 61661 07491

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030240

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving good status by 2015 2015

certainty of less than

good)

Poor Invertebrates Poor (Very Certain) Disproportionately expensive

(P1a), Technically infeasible

(B2p)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

Moderate (Very Certain) Phosphate Moderate Disproportionately expensive (P1a)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R5 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Harpsden Court Drain (West of Henley) GB106039023560

National Grid Reference: SU 76929 81263

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive, Urban Waste Water Treatment Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023233

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good Supports Good

Quantity and Dynamics of Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R6 Surveillance site: No

Waterbody ID and Name: GB106039023610 Ewelme Stream (Source to Thames)

National Grid Reference: SU 62845 92143

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive, Urban Waste Water Treatment Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Urbanisation

Downstream Waterbody ID: GB106039030331

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

Flow (Uncertain) Good (HR2a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3b)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and

riparian zone

Preserve and, where possible, restore historic aquatic habitats In Place

Appropriate techniques (invasive species)

Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Does not require assessment

In Place

River - R7 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023670 Berrick Stream and Lady Brook

National Grid Reference: SU 61746 93496

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030331

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by**

certainty of less than

good)

Supports Good

good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R8 Surveillance site: No

Waterbody ID and Name: GB106039023690 Chalgrove Brook at Watlington

National Grid Reference: SU 66744 95314

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023740

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

> certainty of less than good status by 2015

good)

Fish Poor Poor (Very Certain) Disproportionately expensive

(P1b)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Phosphate Poor (Uncertain) Poor Disproportionately expensive (P1b)

Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow Morphology Supports Good Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R9 Surveillance site: No

Waterbody ID and Name: GB106039023740 Chalgrove Brook (Watlington to Thame)

National Grid Reference: SU 63904 96517

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030240

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
pН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1b)
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and certainty of less than Predicted Status by 2015 Good status by 2015

good)

Quantity and Dynamics of Flow

Supports Good

Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R10 Surveillance site: No

Waterbody ID and Name: GB106039023750 Lewknor Brook

National Grid Reference: SU 68496 97659

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023740

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Quite Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Invertebrates Moderate (Quite Certain) Moderate Technically infeasible (B2a)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R11 Surveillance site: No

Waterbody ID and Name: GB106039023780 Haseley Brook (Latchford Brook to Thame)

National Grid Reference: SU 62074 99588

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030240

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Invertebrates Moderate (Quite Certain) Moderate Disproportionately expensive

(P1a), Technically infeasible

(B2p)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Poor

Poor (Very Certain) Phosphate

High High good status by 2015

Disproportionately expensive

(P1a)

Supporting conditions

Ammonia (Annex 8)

Temperature

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

High

good)

High

Quantity and Dynamics of

Flow

Morphology Supports Good

Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R12 Surveillance site: No

Waterbody ID and Name: Haseley Brook (Upper reaches) GB106039023790

National Grid Reference: SP 67164 01088

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030240

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Flow

Morphology

Quantity and Dynamics of Supports Good Supports Good

Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R13 Surveillance site: No

Waterbody ID and Name: GB106039023820 Baldon Brook (South of Oxford)

National Grid Reference: SU 58164 99923

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030240

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Invertebrates Poor (Very Certain) Poor Technically infeasible (B2a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2

2015

good status by 2015

(P1a)

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High
PH High High

Phosphate Moderate (Very Certain) Moderate Disproportionately expensive

Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R14 Surveillance site: No

Waterbody ID and Name: GB106039023840 Upper Cuttle Brook and tributaries

National Grid Reference: SP 71479 02959

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030190

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of	Does not Support Good	Does not Support	Disproportionately expensive
Flow	(Quite Certain)	Good	(HR4a)
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R15 Surveillance site: No

Waterbody ID and Name: Chinnor Brook and Upper Cuttle Brook GB106039023850

National Grid Reference: SP 72505 03945

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030190

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Flow

Quantity and Dynamics of

Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R16 Surveillance site: No

Waterbody ID and Name: GB106039030180 Northfield Brook (Source to Thames) at Sandford

National Grid Reference: SP 53497 01964

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030334

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good

Moderate Invertebrates Moderate (Quite Certain) Disproportionately expensive

(P1b)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than good status by 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High рΗ High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

(P1b)

Temperature High High Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Supports Good Supports Good

Quantity and Dynamics of Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R17 Surveillance site: No

Waterbody ID and Name: <u>GB106039023880</u> Wye (High Wycombe fire station to Thames)

National Grid Reference: SU 90505 90145

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023233

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Moderate	Disproportionately expensive (HR2a)
Invertebrates	Moderate (Uncertain)	Moderate	Disproportionately expensive (HR2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1b)
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Does not Support Good (Uncertain)	Does not Support Good	Disproportionately expensive (HR2a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Alteration of channel bed (within culvert)	In Place
Re-opening existing culverts	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R18 Surveillance site: No

Waterbody ID and Name: GB106039023890 Wye (Source to High Wycombe fire station)

National Grid Reference: SU 82659 94650

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation, Wider Environment

Downstream Waterbody ID: GB106039023880

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Moderate Fish Moderate (Uncertain) Disproportionately expensive

(HR2a)

Supporting elements

Current status (and **Predicted Status by** Justification for not achieving Element certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Phosphate Poor (Uncertain) Poor Disproportionately expensive

(P1a)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of Does not Support Good

Flow (Uncertain) Does not Support Good

Disproportionately expensive

(HR2a)

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving good status by 2015 2015

Mitigation Measures

Assessment

Moderate Moderate

Disproportionately expensive (M2c), Technically infeasible

(M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Alteration of channel bed (within culvert)	In Place
Re-opening existing culverts	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R19 Surveillance site: No

Waterbody ID and Name: GB106039023900 Hughenden Stream

National Grid Reference: SU 86335 94837

Current Overall Potential Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023880

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Quite Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

good status by 2015

Moderate Invertebrates Poor (Quite Certain) Disproportionately expensive

(HR2a)

Supporting conditions

Current status (and **Predicted Status by** Justification for not achieving Element certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

(Uncertain) Good (HR2a)

Ecological Potential Assessment

Justification for not achieving **Current status Predicted Status by** Element

2015

Good Mitigation Measures Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R20 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039030380 Bear Brook and Wendover Brook

National Grid Reference: SP 86134 10741

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Land Drainage, Urbanisation, Water Regulation

(impoundment release)

GB106039030350 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good

Moderate Invertebrates Moderate (Quite Certain) Not Required (MS)

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High

pН

High

High

Phosphate Moderate (Uncertain) Moderate

Disproportionately expensive

(P1b)

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Ecological Potential Assessment

Current status Predicted Status by Justification for not achieving Element 2015

Mitigation Measures

Assessment

Good

Good

good status by 2015

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	In Place
Appropriate water level management strategies, including timing and volume of water moved	In Place
Ensure the seasonal pattern of water levels during each year is managed so as to enable the establishment and retention of aquatic plant and animal communities in the shore zone of the impoundment.	In Place
Ensure the rate and range of any artificial drawdown is appropriately managed to maintain aquatic plant and animal communities in the shore zones of water storage and supply with gently shelving shore zones.	In Place
Re-opening existing culverts	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R21 Surveillance site: No

Waterbody ID and Name: GB106039030400 Dorton, Chearsley and Waddesdon Brooks

National Grid Reference: SP 69637 12597

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030370

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Poor Invertebrates Poor (Quite Certain) Disproportionately expensive

(P1b), Technically infeasible

(B2p)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High pН High High Bad (Very Certain) Phosphate

Bad Disproportionately expensive

(P1b)

Temperature High High Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good

Quantity and Dynamics of

Flow

Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R22 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039030410 Thame upstream of Aylesbury

National Grid Reference: SP 81847 16263

Current Overall Status Bad

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030370 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Bad (Very Certain)

Biological elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Bad (Very Certain) Bad

Technically infeasible (B2m, B2p)

Supporting elements

Element Current status (and certainty of less than

good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good High pΗ High Good Phosphate Good Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Brook west

Waterbody Category and Map Code.: River - R23 Surveillance site: No

Waterbody ID and Name: GB106039030420 Fleet Marston Brook, Denham Brook, Pitchcott

National Grid Reference: SP 77767 17590

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030370

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

good)

Fish Poor Poor (Very Certain) Disproportionately expensive

(P1a), Technically infeasible

(B2p)

Invertebrates Moderate Moderate (Quite Certain) Disproportionately expensive

(P1a), Technically infeasible

(B2p)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Moderate (Uncertain) Moderate

Disproportionately expensive (A1a)

Dissolved Oxygen Good Good High pΗ High

Phosphate

Bad Bad (Very Certain) Disproportionately expensive

(P1a)

Temperature High Hiah

Ammonia (Annex 8) Moderate (Uncertain) Moderate Disproportionately expensive

(A1a)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R24 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039030430 Hardwick Brook (Source to Thame)

National Grid Reference: SP 81207 19134

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030370 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** 2015

certainty of less than

good)

Invertebrates Good Good

Justification for not achieving

good status by 2015

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

High Ammonia (Annex 8) High Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pΗ High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

(P1a)

High Temperature High

Supporting conditions

Current status (and Predicted Status by Justification for not achieving Element certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Supports Good Morphology Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R25 Surveillance site: No

Waterbody ID and Name: GB106039030220 Scotsgrove Brook (Kingsey Cuttle to Thame)

National Grid Reference: SP 71381 07174

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030240

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Invertebrates Moderate (Quite Certain) Moderate Disproportionately expensive

(P1b), Technically infeasible

(B2p)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pН High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive (P1b)

Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of Supports Good

Flow Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R26 Surveillance site: No

Waterbody ID and Name: GB106039030240 Thame (Scotsgrove Brook to Thames)

National Grid Reference: SU 58416 95213

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030331

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish High High

Invertebrates Poor (Very Certain) Moderate Technically infeasible (B2p)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

Phosphate

Poor (Very Certain) Poor Disproportionately expensive

(P1b)

Temperature High High High

Arsenic High Copper High Iron High Permethrin High

High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

High

High

good)

Supports Good

Supports Good

Flow Morphology Supports Good Supports Good

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Chemical Status

Current Status (and certainty that status is less than good)

Fail (Quite Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Tributyltin Compounds	Moderate (Quite Certain)	Moderate	Technically infeasible (C2a)
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

River - R27 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039030270 Scotsgrove Brook (upstream Kingsey Cuttle Brook)

National Grid Reference: SP 77783 10104

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030220 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Invertebrates High High

Phytobenthos Poor Poor (Very Certain) Disproportionately expensive

(P1a)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good рΗ High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

(P1a)

Temperature High High High Copper High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R28 Surveillance site: No

Peppershill and Shabbington Brooks Waterbody ID and Name: GB106039030290

National Grid Reference: SP 66685 08926

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030240

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Poor Invertebrates Poor (Very Certain) Disproportionately expensive

(DO1a, P1b), Technically

infeasible (B2p)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

High

good status by 2015

Ammonia (Phys-Chem) High

Dissolved Oxygen Moderate (Uncertain) Moderate Disproportionately expensive

(DO1a)

Hiah pН High

Phosphate Poor (Very Certain) Poor

Disproportionately expensive

(P1b)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R29 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039030320 Stoke Brook Aylesbury

National Grid Reference: SP 82095 10725

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030350

Ecological Status

Current Status (and certainty

that status is less than good)

Good

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

Invertebrates Good Good

2015 good status by 2015

Supporting conditions

Quantity and Dynamics of

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Supports Good

Flow Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R30 Surveillance site: No

Waterbody ID and Name: GB106039030190 Cuttle Brook (lower section) and tributaries at

National Grid Reference: SP 70061 04604

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Good

Justification if overall objective is

not good status by 2015:

Current Overall Status

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030240

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of	Does not Support Good	Does not Support	Disproportionately expensive
Flow	(Uncertain)	Good	(HR2a)
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R31 Surveillance site: No

Waterbody ID and Name: GB106039030370 Thame (Aylesbury to Scotsgrove Brook)

National Grid Reference: SP 72008 09199

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030240 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Poor (Uncertain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

good status by 2015 certainty of less than 2015

good)

Fish Poor (Uncertain) Good Invertebrates Good Good

Phytobenthos Moderate (Very Certain) Moderate Disproportionately expensive

(P1b)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

Poor

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High High pΗ High

Phosphate Poor (Very Certain)

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High Disproportionately expensive

(P1b)

Supporting conditions

Current status (and **Predicted Status by** Justification for not achieving Flement good status by 2015

certainty of less than 2015

good)

Supports Good Supports Good

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R32 Surveillance site: No

Waterbody ID and Name: GB106039030200 Kingsey Cuttle Brook and tributaries at Thame

National Grid Reference: SP 78010 04076

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030220

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Uncertain)	Moderate	Technically infeasible (B2p)
Invertebrates	Moderate (Very Certain)	Moderate	Technically infeasible (B2p)
Phytobenthos	Moderate (Quite Certain)	Moderate	Disproportionately expensive (P1c)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
pН	High	High	
Phosphate	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1c)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Supports Good	Supports Good	
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Waterbody Category and Map Code.: River - R33 Surveillance site: No

Waterbody ID and Name: GB106039023830 Latchford Brook at Tetsworth

National Grid Reference: SP 66762 02410

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030240

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Moderate Invertebrates Moderate (Uncertain) Disproportionately expensive

(P1a), Technically infeasible

(B2p)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Poor (Very Certain) Phosphate Poor

High High High High

Disproportionately expensive

(P1a)

Supporting conditions

Ammonia (Annex 8)

Temperature

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R34 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039030331 Thames Wallingford to Caversham

National Grid Reference: SU 71319 74415

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation

Downstream Waterbody ID: GB106039023233

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

good)

Predicted Status by

Justification for not achieving

good status by 2015

Moderate Invertebrates Bad (Very Certain) Not Required (MS)

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Moderate (Very Certain) Phosphate

Moderate

Disproportionately expensive

(P1c)

Temperature High High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3g) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Lateral zoning to concentrate boats within a central track	In Place
Vessel Management	In Place
Appropriate techniques (invasive species)	In Place
Alter timing of dredging / disposal	Not In Place
Increase in-channel morphological diversity	Not In Place
Bank rehabilitation / reprofiling	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	Not In Place
Prepare a dredging / disposal strategy	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Reduce sediment resuspension	Not In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Sediment management	Not In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	Not In Place
Manage disturbance	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	Not In Place
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Reduce impact of dredging	Not In Place

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R35 Surveillance site: No

Waterbody ID and Name: GB106039023720 Hamble Brook and Hambleden Stream

National Grid Reference: SU 78325 86531

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023233

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Poor (Very Certain) Poor Disproportionately expensive

(M5a)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R36 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039030333 Thames (Leach to Evenlode)

National Grid Reference: SP 38128 01628

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates

Directive, Urban Waste Water Treatment Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID:

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

GB106039030334

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Moderate (Uncertain) Invertebrates Good Good

Supporting elements

Ammonia (Phys-Chem)

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015

good)

High

good status by 2015

Dissolved Oxygen High High pН High

High

Moderate (Very Certain) Moderate Disproportionately expensive

(P1c)

Phosphate **Temperature** High Arsenic High Copper High Iron High Permethrin High Phenol High Toluene High Zinc High Ammonia (Annex 8) High

Supporting conditions

Element Current status (and certainty of less than good)

Quantity and Dynamics of Flow

Current status (and certainty of less than good)

Predicted Status by 2015 good status by 2015

Supports Good

Supports Good

Supports Good

Chemical Status

Morphology

Current Status (and certainty that status is less than good)

Good

Supports Good

Chemical elements

Element	Current status (and certainty of less than	Predicted Status by 2015	Justification for not achieving good status by 2015
	good)	2010	good status by 2010
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzene	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Tributyltin Compounds	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R37 Surveillance site: No

Waterbody ID and Name: GB106039030334 Thames (Evenlode to Thame)

National Grid Reference: SP 48712 07540

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates

Directive, Urban Waste Water Treatment Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030331

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good

Moderate Invertebrates Poor (Very Certain) Disproportionately expensive

(B1a)

Supporting elements

рΗ

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High High High

Phosphate

Moderate (Very Certain) Moderate Disproportionately expensive

(P1c)

Temperature High High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: Lake - L1 Surveillance site: No

Waterbody ID and Name: GB30641011 Farmoor Reservoir

National Grid Reference: SP 44557 06200

Current Overall Potential Bad

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Bad (Very Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Chironom Invertebrates Bad (Very Certain) Bad Technically infeasible (B2a)

littoral Invertebrates High High

Phytoplankton Bad (Very Certain) Bad Technically infeasible (P2b)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Acid Neutralising Capacity High High
Ammonia (Phys-Chem) High High

Total Phosphorus Poor (Very Certain) Poor Technically infeasible (P2b)

Total Phosphorus Poor (Very Certain) Poor Copper High High High Zinc High

Ammonia (Annex 8) High High

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good

Assessment Good Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Lake - L2 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30642393 Sonning Eye gravel pit

National Grid Reference: SU 74561 75396

Current Overall Potential Good

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No Artificial **Hydromorphological Designation: Reason for Designation:** Recreation

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and Predicted Status by**

certainty of less than

good)

High

Good Good

Justification for not achieving

good status by 2015

Supporting elements

Macrophytes

Phytoplankton

Element Current status (and Predicted Status by Justification for not achieving 2015

2015

High

certainty of less than

good)

Dissolved Oxygen Good Good **Total Phosphorus** Good Good Copper High High Zinc High High

good status by 2015

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

B.18 Thames (Maidenhead to Sunbury) river catchment

Rivers and Lakes

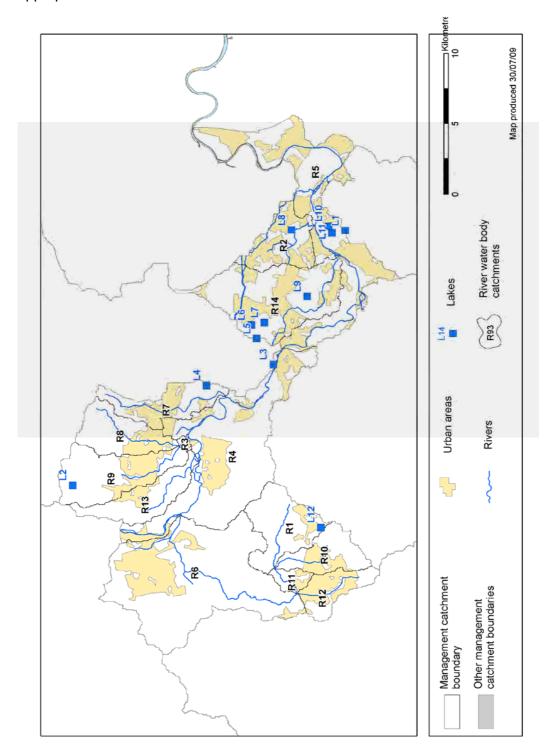
There are 14 river water bodies (of which 13 are designated as heavily modified) and 12 lake water bodies (of which 10 are designated as artificial) within the Thames (Maidenhead to Sunbury) river catchment.

Figure B.18.1 Status objectives for rivers and lakes in the Thames (Maidenhead to Sunbury) river catchment

	Proposed status/potential objective					
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies	
Rivers	0	0	1	1	1	
Lakes	2	2	2	0	2	
Heavily modified water bodies	0	0	13	13	13	
Artificial water bodies	4	4	10	6	10	

Figure B.18.2 River and lake water bodies in the Thames (Maidenhead to Sunbury) river catchment

Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Thames (Maidenhead to Sunbury) catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Waterbody Category and Map Code.: River - R1 Surveillance site: No

Waterbody ID and Name: GB106039023440 Cut (Ascot to Bull Brook confluence at Warfield)

National Grid Reference: SU 89894 71862

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Irrigation, Land Drainage, Recreation, Urbanisation, Wider

Environment

Downstream Waterbody ID: GB106039017680

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good
Dissolved Oxygen High High
pH High High

Phosphate Poor (Uncertain) Poor Disproportionately expensive

(P1a)

Temperature High High Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Disproportionately expensive Assessment (M2c), Technically infeasible

(M3a, M3b, M3c)

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R2 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023450 Port Lane Brook

National Grid Reference: TQ 10285 73694

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Natura 2000 (Habitats and/or Birds Directive),

Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Urbanisation

GB106039023232 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and**

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Poor Invertebrates Poor (Very Certain) Not Required (MS)

Supporting elements

Element Current status (and

certainty of less than

good)

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Phosphate

Poor (Very Certain)

Poor

Disproportionately expensive

(P1a)

Temperature Good Good Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by

2015

Justification for not achieving

good status by 2015

Mitigation Measures Assessment

Moderate

Moderate

Technically infeasible (M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Waterbody Category and Map Code.: River - R3 Surveillance site: No

Waterbody ID and Name: GB106039023470 Chalvey Ditches (lower reaches to River Thames

National Grid Reference: SU 97091 78296

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106039023231

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Element Current status (and **Predicted Status by**

certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Fish High High Invertebrates Good Good

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pН High High Phosphate Good Good Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

good status by 2015

Supporting conditions

Predicted Status by Justification for not achieving Element **Current status (and** certainty of less than

Good

good)

Quantity and Dynamics of Does not Support Good

(Quite Certain)

2015

good status by 2015

Does not Support Disproportionately expensive (HR4a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Moderate Moderate Technically infeasible (M3a) Mitigation Measures

Assessment

Environment Agency, Annex B Thames River Basin District, December 2009

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Increase in-channel morphological diversity	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R4 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023231 Thames (Cookham to Egham)

National Grid Reference: SU 99831 75888

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates

Directive, Urban Waste Water Treatment Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation, Water Storage - non-specific

Downstream Waterbody ID: GB106039023232

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving 2015

certainty of less than

good) High

High

High

High

good status by 2015

Supporting elements

Fish

Invertebrates

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

Phosphate Moderate (Very Certain) Moderate

Temperature High High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

good status by 2015

Disproportionately expensive

(P1c)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Moderate Moderate Technically infeasible (M3a, M3d, Mitigation Measures Assessment

M3g)

Mitigation Measure	Status
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate techniques (invasive species)	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate timing (vegetation control)	In Place
Set-back embankments	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	Not In Place
Bank rehabilitation / reprofiling	Not In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow	Not In Place
manipulation or training works) Increase in-channel morphological diversity	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Improve floodplain connectivity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream	Not In Place
and downstream of the impounding works. Where structures or other mechanisms are in place to enable fish to access waters upstream of the impounding works, the volume and timing of flow releases is sufficient to enable and, where relevant, trigger fish migration.	Not In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource purposes (or pumping stations) where there is downstream fish migration.	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Prepare a dredging / disposal strategy	Not In Place
Reduce impact of dredging	Not In Place
Reduce sediment resuspension	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Sediment management	Not In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Manage disturbance	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Modify vessel design	Not In Place
Vessel Management	Not In Place
Lateral zoning to concentrate boats within a central track	Not In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	Not In Place
Alter timing of dredging / disposal	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

Waterbody Category and Map Code.: River - R5 Surveillance site: Yes

Waterbody ID and Name: GB106039023232 Thames (Egham to Teddington)

National Grid Reference: TQ 17762 68517

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates

Directive, Urban Waste Water Treatment Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Drinking Water, Flood Protection, Navigation, Water Storage - non-specific

Downstream Waterbody ID: GB530603911400

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	High	High	
Invertebrates	Good	Good	
Macrophytes	Good	Good	
Phytobenthos	Poor (Very Certain)	Poor	Disproportionately expensive

(P1c)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1c)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Permethrin	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Ecological Potential Assessment

Element	Current status	Predicted Status by 2015	Justification for not achieving good status by 2015
Mitigation Measures Assessment	Moderate	Moderate	Technically infeasible (M3a, M3d, M3g)

Mitigation Measure	Status
Sediment management strategies (develop and revise)	In Place
Where structures or other mechanisms are in place to enable fish to access waters upstream of the impounding works, the volume and timing of flow releases is sufficient to enable and, where relevant, trigger fish migration.	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate techniques (invasive species)	In Place
Improve floodplain connectivity	Not In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	Not in Place
Set-back embankments	Not in Place
Prepare a dredging / disposal strategy	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Bank rehabilitation / reprofiling	Not In Place
Increase in-channel morphological diversity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream	Not In Place
and downstream of the impounding works. Preserve and, where possible, restore historic aquatic habitats	Not In Place
Management of the risk of fish entrainment in intakes for hydropower turbines or water resource	Not In Place
purposes (or pumping stations) where there is downstream fish migration. Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and	Not In Place
riparian zone Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	Not In Place
Reduce impact of dredging	Not In Place
Reduce sediment resuspension	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Sediment management	Not In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Manage disturbance	Not In Place
Enable access to relevant feeder-streams draining into the reservoir at appropriate times for spawning and migration.	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage) Modify vessel design	Not In Place
Vessel Management	Not In Place
Lateral zoning to concentrate boats within a central track	Not In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	Not In Place
Alter timing of dredging / disposal	Not In Place
Titol tilling of alloughly full poolal	HOL III FIACE

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Very Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Tributyltin Compounds	Moderate (Very Certain)	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
DDT Total	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R6 Surveillance site: No

Waterbody ID and Name: GB106039023510 Cut (Binfield to River Thames confluence) and

National Grid Reference: SU 85787 74483 Maidenhead Ditch

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106039023231

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element	Current status (and certainty of less than	Predicted Status by 2015	Justification for not achieving good status by 2015
	good)		

Fish Moderate (Uncertain) Moderate Not Required (MS)
Invertebrates Moderate (Uncertain) Moderate Not Required (MS)

Phytobenthos Poor (Very Certain) Poor Disproportionately expensive

(P1c)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Good	Good	
Dissolved Oxygen	High	High	
pH	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	Good	Good	

Supporting conditions

Element Current status (and predicted Status by certainty of less than good)

Current status (and predicted Status by 2015 good status by 2015 good status by 2015

Quantity and Dynamics of

Flow

Supports Good Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate timing (vegetation control)	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	In Place
Increase in-channel morphological diversity	In Place
Appropriate vegetation control technique	In Place
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate techniques (invasive species)	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Selective vegetation control regime	In Place
Sediment management strategies (develop and revise)	Not In Place
Remove obsolete structure	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

River - R7 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023520 **Datchet Common Brook**

National Grid Reference: SU 99008 79445

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Land Drainage, Urbanisation, Wider Environment

Downstream Waterbody ID: GB106039023231

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Biological elements

Element Current status (and

certainty of less than

good)

2015

Predicted Status by

Justification for not achieving

good status by 2015

Invertebrates High High

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Element

Current status

Predicted Status by 2015

Justification for not achieving good status by 2015

Mitigation Measures

Assessment

Moderate Moderate Disproportionately expensive

(M2c), Technically infeasible

(M3b, M3c)

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Increase in-channel morphological diversity	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R8

Waterbody ID and Name: GB106039023530 Salthill Stream

National Grid Reference: SU 97411 82899

Current Overall Potential Poor

Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023470

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Moderate Fish Moderate (Uncertain) Disproportionately expensive

(HR4a)

Invertebrates Poor Disproportionately expensive Poor (Very Certain)

(HR4a)

Supporting conditions

Quantity and Dynamics of

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Does not Support Good Does not Support Disproportionately expensive

(Quite Certain) Good (HR4a)

Ecological Potential Assessment

Current status Predicted Status by Justification for not achieving **Element** 2015 good status by 2015

Mitigation Measures

Assessment

Moderate Moderate

Technically infeasible (M3a, M3b)

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-engineering of the river where the flow regime cannot be modified.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R9 Surveillance site: No

Waterbody ID and Name: GB106039023550 Chalvey Ditches at Slough

National Grid Reference: SU 94656 80201

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023470

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

> certainty of less than good status by 2015 2015

good)

Fish Moderate (Quite Certain) Moderate Disproportionately expensive

(HR4a)

Supporting conditions

Current status (and **Predicted Status by** Justification for not achieving Element 2015 good status by 2015

certainty of less than

good)

Does not Support Good Does not Support Disproportionately expensive Quantity and Dynamics of (Quite Certain) Good (HR4a)

Ecological Potential Assessment

Element **Current status** Predicted Status by Justification for not achieving

> 2015 good status by 2015

Mitigation Measures

Assessment

Moderate Moderate Technically infeasible (M3a, M3b)

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R10

Waterbody ID and Name: GB106039017670 **Bull Brook**

National Grid Reference: SU 88182 69859

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Urbanisation

GB106039017680 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Moderate (Quite Certain) Moderate Not Required (MS)

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High High pΗ High

High

High

Bad (Very Certain) Phosphate

Bad High

High

Disproportionately expensive

(P1c)

Supporting conditions

Ammonia (Annex 8)

Temperature

Current status (and Element

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Ecological Potential Assessment

Predicted Status by Justification for not achieving Element **Current status**

2015 good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3b)

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R11 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Cut (Warfield to north Bracknell) GB106039017680

National Grid Reference: SU 86754 71267

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023510

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Good	Good	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	Good	Good	

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Flow

Quantity and Dynamics of

Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R12 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017660 Cut at west Bracknell

National Grid Reference: SU 86015 67941

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Urbanisation

Downstream Waterbody ID: GB106039023510

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High pΗ High High

Phosphate Poor (Uncertain) Poor Disproportionately expensive

(P1a)

Temperature High High Ammonia (Annex 8) Good Good

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

> 2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3b)

Assessment

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Increase in-channel morphological diversity	In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R13

Roundmoor Ditch and Boveney Ditch Waterbody ID and Name: GB106039023540

National Grid Reference: SU 93831 79377

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

GB106039023231 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Fish High High

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Moderate (Uncertain) Phosphate

Moderate

High

Disproportionately expensive

(P1c)

Temperature High High Arsenic High High Copper High High Iron High High Zinc High High

High

Supporting conditions

Ammonia (Annex 8)

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Supports Good

Supports Good

Technically infeasible (M3a)

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Moderate

Mitigation Measures Assessment

Mitigation Measures that have defined Ecological Potential

Moderate

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Increase in-channel morphological diversity	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

River - R14 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023480 Ash & Stanwell brook

National Grid Reference: TQ 06629 74353

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023232

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by**

certainty of less than

good)

2015

Justification for not achieving good status by 2015

Fish Good Good Good Good Invertebrates

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015

good)

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pН High High

Phosphate Moderate (Very Certain)

Moderate

Disproportionately expensive

(P1a)

Temperature High High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than

good)

Quantity and Dynamics of Does not Support Good

Flow

(Uncertain)

2015

good status by 2015

Does not Support Good

Disproportionately expensive (HR2a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3b) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Lake - L1 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30642813 Queen Elizabeth 2 Storage Reservoir

National Grid Reference: TQ 11881 66972

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

> certainty of less than 2015 good status by 2015

good)

Moderate Phytoplankton Moderate (Very Certain) Technically infeasible (P2a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015

good)

good status by 2015

Bad (Very Certain) **Total Phosphorus** Bad Technically infeasible (P2a)

High High Copper Zinc High High

Ecological Potential Assessment

Predicted Status by Justification for not achieving Element **Current status**

> 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty

that status is less than good)

Waterbody Category and Map Code.: Lake - L2 Surveillance site: No

Waterbody ID and Name: Littleworth Ponds GB30647022

National Grid Reference: SU 93665 86366

Good **Current Overall Status**

Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Not Designated **Protected Area Designation:**

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Lake - L3 Surveillance site: No

Waterbody ID and Name: GB30642569 Queensmead

National Grid Reference: TQ 02292 72090

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Recreation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment that status is less than good)

Waterbody Category and Map Code.: Lake - L4 Surveillance site: No

Waterbody ID and Name: GB30642334 The Queen Mother Reservoir

National Grid Reference: TQ 00807 76843

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Chironom Invertebrates Poor (Very Certain) Poor Technically infeasible (B2a)

Phytoplankton Good Good

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Total Phosphorus Bad (Very Certain) Bad Disproportionately expensive

Copper High High
Zinc High High

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

(P1a)

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L5 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30642488 King George VI Reservoir

National Grid Reference: TQ 04155 73267

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Natura 2000

(Habitats and/or Birds Directive)

No SSSI (Non-N2K) related:

Artificial **Hydromorphological Designation:**

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

2015

certainty of less than

good)

Good Good

good status by 2015

Supporting elements

Phytoplankton

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Bad (Very Certain) **Total Phosphorus** Bad Disproportionately expensive

(P1o)

Copper High High Zinc High High

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

Good Mitigation Measures

Assessment

Good

good status by 2015

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L6 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30642490 Staines Reservoirs

National Grid Reference: TQ 05137 73646

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Natura 2000

(Habitats and/or Birds Directive)

No SSSI (Non-N2K) related:

Artificial **Hydromorphological Designation:**

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain - WoE)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

> certainty of less than 2015 good status by 2015

good)

Phytoplankton Moderate (Quite Certain) Moderate Technically infeasible (P2a)

Supporting elements

Current status (and Predicted Status by Justification for not achieving Element certainty of less than 2015

good)

good status by 2015

Total Phosphorus Bad (Very Certain) Bad Technically infeasible (P2a)

High Copper High Zinc High High

Ecological Potential Assessment

Predicted Status by Element **Current status** Justification for not achieving

> 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: Lake - L7 Surveillance site: No

Waterbody ID and Name: GB30642525 Staines Reservoirs

National Grid Reference: TQ 05313 72726

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Natura 2000

(Habitats and/or Birds Directive)

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Phytoplankton Poor (Very Certain) Poor Technically infeasible (P2a)

Supporting elements

Total Phosphorus

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

d)

good)

Bad (Very Certain) Bad Technically infeasible (P2a)

Copper High High Zinc High High

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Lake - L8 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30642614 Kempton Park Reservoir(E) Dis used?

National Grid Reference: TQ 11909 70789

Good **Current Overall Potential**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive)

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Good

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: Lake - L9 Surveillance site: No

Waterbody ID and Name: GB30642639 Queen Mary Reservoir

National Grid Reference: TQ 07178 69674

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water, Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Uncertain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Phytobenthos Poor (Very Certain) Poor Disproportionately expensive

Phytoplankton Good Good (P1a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Acid Neutralising Capacity High High
Ammonia (Phys-Chem) High High
Dissolved Oxygen High High

Total Phosphorus Poor (Very Certain) Poor Disproportionately expensive

(P1a)

Copper High High
Zinc High High
Ammonia (Annex 8) High High

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty

that status is less than good)

Waterbody Category and Map Code.: Lake - L10 Surveillance site: No

Waterbody ID and Name: GB30642779 Bessborough Reservoir

National Grid Reference: TQ 12186 68153

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Natura 2000 (Habitats and/or Birds

Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: Lake - L11 Surveillance site: No

Waterbody ID and Name: GB30642791 Knight Reservoir

National Grid Reference: TQ 11706 67910

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Natura 2000 (Habitats and/or Birds

Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Drinking Water

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Lake - L12 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30642757 **Englemere Pond**

National Grid Reference: SU 90659 68694

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good Supports Good

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

B.19 Upper Lee river catchment

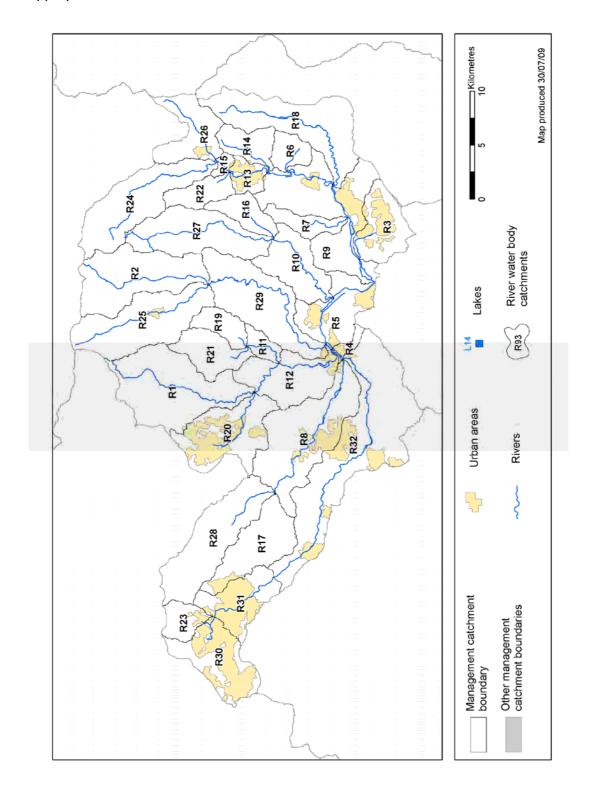
Rivers and Lakes

There are 32 river water bodies (of which 9 are designated as heavily modified) within the Upper Lee river catchment. There are no lake water bodies.

Figure B.19.1 Status objectives for rivers and lakes in the Upper Lee river catchment

	Proposed status/potential objective				
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	6	6	23	17	23
Lakes	0	0	0	0	0
Heavily modified water bodies	0	0	9	9	9
Artificial water bodies	0	0	0	0	0

Figure B.19.2 River and lake water bodies in the Upper Lee river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Upper Lee catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Stevenage Brook)

Waterbody Category and Map Code.: River - R1 Surveillance site: No

Waterbody ID and Name: GB106038040110 Beane (from Roe Green to confluence with

National Grid Reference: TL 29511 27755

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033310

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving good status by 2015 2015

certainty of less than

good)

Invertebrates Moderate (Quite Certain) Moderate Disproportionately expensive

(HR2a), Technically infeasible

(B2p)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good High pН High Phosphate Good Good Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Quantity and Dynamics of

(Uncertain) Supports Good

Does not Support Good Does not Support

Good

Supports Good

good status by 2015

Disproportionately expensive

(HR2a)

Chemical Status

Flow

Morphology

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R2 Surveillance site: Yes

Waterbody ID and Name: GB106038040120 Quin

National Grid Reference: TL 39465 30805

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033360

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Uncertain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Uncertain)	Moderate	Technically infeasible (S2b)
Invertebrates	High	High	
Macrophytes	Good	Good	
Phytobenthos	Poor (Very Certain)	Moderate	Technically infeasible (B2r)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Supports Good	Supports Good	
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R3 Surveillance site: No

Waterbody ID and Name: GB106038033220 Cannons Brook

National Grid Reference: TL 42982 10995

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033280

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and certainty of less than good)

Ammonia (Phys. Chem)

Current status (and certainty of less than good status by 2015 goo

Ammonia (Phys-Chem)HighHighDissolved OxygenHighHighpHHighHighPhosphatePoor (Uncertain)Poor

Temperature High High
Ammonia (Annex 8) High High

P1a) Temperature High High

Supporting conditions

Element Current status (and certainty of less than Current status (and certainty of less than Current status (and certainty of less than 2015 Justification for not achieving good status by 2015

Supports Good

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Disproportionately expensive

Waterbody Category and Map Code.: River - R4 Surveillance site: No

Waterbody ID and Name: GB106038033230 Lee (at Hertford)

National Grid Reference: TL 32619 12962

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation, Urbanisation

Downstream Waterbody ID: GB106038033240

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Fish Good Good

good)

Supporting elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High High

good)

pΗ High

Moderate (Very Certain)

Moderate

Disproportionately expensive

(P1c)

Temperature High High High Copper High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Phosphate

Supports Good

good)

Supports Good

Ecological Potential Assessment

Element Current status **Predicted Status by** 2015

Predicted Status by

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3a, M3b)

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Environment Agency, Annex B Thames River Basin District, December 2009

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Increase in-channel morphological diversity	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R5 Surveillance site: No

Waterbody ID and Name: <u>GB106038033240</u> Lee Navigation (Hertford and Ware)

National Grid Reference: TL 38441 11170

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Natura 2000

(Habitats and/or Birds Directive), Nitrates Directive, Urban Waste Water

Treatment Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Navigation

Downstream Waterbody ID: GB106038077851

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Very Certain)

Biological elements

Element	Current status (and certainty of less than	Predicted Status by 2015	Justification for not achieving good status by 2015
	good)		

Fish Good Good Invertebrates Good Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
pН	High	High	
Phosphate	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1c)
Temperature	High	High	
2,4-dichlorophenol	High	High	
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	High	High	
Diazinon	High	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Permethrin	High	High	
Toluene	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of Flow

Does not Support Good (Quite Certain)

Does not Support Good

Disproportionately expensive (HR4a)

Ecological Potential Assessment

Element Current status **Predicted Status by** 2015

Justification for not achieving good status by 2015

Mitigation Measures

Moderate Assessment

Moderate

Technically infeasible (M3g)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Bank rehabilitation / reprofiling	In Place
Sediment management	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Manage disturbance	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Alter timing of dredging / disposal	In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzene	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	High	High	
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Chlorfenvinphos	High	High	
Diuron	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Isoproturon	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Tributyltin Compounds	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R6 Surveillance site: No

Waterbody ID and Name: GB106038033250 Little Hallingbury and Woodside Green Brooks

National Grid Reference: TL 50359 17053

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033280

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and certainty of less than Predicted Status by 2015 Good status by 2015

good)

Quantity and Dynamics of Flow

Supports Good

Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R7 Surveillance site: No

Waterbody ID and Name: GB106038033260 Fiddlers Brook

National Grid Reference: TL 44211 13657

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033280

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Phosphate Poor (Uncertain) Poor Disproportionately expensive (P1a) Temperature High High

Supporting conditions

Ammonia (Annex 8)

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

High

good)

High

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive Flow Good (HR2a)

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R8

Waterbody ID and Name: GB106038033270 Mimram (from Welwyn to confluence with Lee)

National Grid Reference: TL 22842 16609

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033230

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

good status by 2015 certainty of less than 2015 good)

Fish Poor (Very Certain)

Moderate Disproportionately expensive (HR4a, M5a)

Invertebrates Good Moderate (Uncertain)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High Phosphate Good Good Temperature High High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Flow

Morphology

Does not Support Good (Uncertain) Supports Good

Does not Support Good

Supports Good

Disproportionately expensive

(HR4a)

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Waterbody Category and Map Code.: River - R9 Surveillance site: No

Waterbody ID and Name: GB106038033280 Stort Navigation (near Sawbridgeworth Lock)

National Grid Reference: TL 39991 10505

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Water Storage - non-specific

Downstream Waterbody ID: GB106038077851

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	High	High	
Invertebrates	Good	Good	
Phytobenthos	Poor (Very Certain)	Moderate	Disproportionately expensive (P1c)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)
Temperature	High	High	
2,4-dichlorophenol	High	High	
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	High	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Permethrin	High	High	
Toluene	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Quite Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Atrazine	High	High	
Benzene	High	High	
Lead And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Tributyltin Compounds	Moderate (Quite Certain)	Moderate	Technically infeasible (C2a)
Trifluralin	High	High	

Waterbody Category and Map Code.: River - R10 Surveillance site: No

Waterbody ID and Name: GB106038033290 Ash (from confluence with Bury Green Brook to

National Grid Reference: TL 38727 14747

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Natura 2000 (Habitats and/or Birds Directive),

Nitrates Directive, Urban Waste Water Treatment Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033240

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element Predicted Status by Justification for not achieving 2015

certainty of less than

Moderate (Very Certain)

good)

Good

High

good status by 2015

Invertebrates High

Supporting elements

Fish

Current status (and Element Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate Good Good Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Flow (Quite Certain)

Morphology Supports Good Does not Support Good Supports Good

Disproportionately expensive

(HR4a)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R11 Surveillance site: No

Waterbody ID and Name: GB106038033300 **Dane End Tributary**

National Grid Reference: TL 33109 18931

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033310

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	

Supporting conditions

Ammonia (Annex 8)

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

High

good)

High

Quantity and Dynamics of Does not Support Good

Flow

(Quite Certain) Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R12 Surveillance site: No

Waterbody ID and Name: GB106038033310 Beane (from confluence with Stevenage Brook to

National Grid Reference: TL 31238 18420

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Land Drainage, Urbanisation, Wider Environment

GB106038033240 **Downstream Waterbody ID:**

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015 good)

Moderate Moderate (Uncertain)

Fish Disproportionately expensive (HR4a)

Invertebrates High High

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good рΗ High High Phosphate Good Good Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

good)

Supporting conditions

Quantity and Dynamics of

Flow

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

Does not Support Good (Quite Certain)

Does not Support Good

2015

good status by 2015

Disproportionately expensive (HR4a)

Environment Agency, Annex B Thames River Basin District, December 2009

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Mitigation Measures

Assessment

Moderate

Disproportionately expensive (M2c), Technically infeasible

(M3a, M3b, M3c)

Mitigation Measures that have defined Ecological Potential

Moderate

Mitigation Measure	Status
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Remove obsolete structure	Not In Place
Improve floodplain connectivity	Not In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Set-back embankments	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

River - R13 Surveillance site: Yes Waterbody Category and Map Code.:

Waterbody ID and Name: Stort Navigation (through Bishops Stortford) GB106038033320

National Grid Reference: TL 49239 20587

Poor **Current Overall Potential**

(For Protected Area Objectives see Annex D) Good by 2027 Status Objective (Overall):

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Flood Protection, Navigation, Urbanisation **Reason for Designation:**

Poor (Very Certain)

Downstream Waterbody ID: GB106038033280

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Invertebrates	Good	Good	
Macrophytes	Good	Good	

Poor

Supporting elements

Phytobenthos

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Moderate (Quite Certain)	Moderate	Disproportionately expensive (DO1a)
pH	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Does not Support Good (Uncertain)	Does not Support Good	Disproportionately expensive (HR2a)

Disproportionately expensive

(P1c)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3b, Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works) Prepare a dredging / disposal strategy	In Place
Reduce sediment resuspension	In Place
	In Place
Sediment management Site collection (dradged material dispasel) (a.g. evelid consistive sites)	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Manage disturbance	
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Appropriate vegetation control technique	In Place
Reduce impact of dredging	In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Increase in-channel morphological diversity	Not In Place
Re-opening existing culverts	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Flood bunds (earth banks, in place of floodwalls)	Not In Place
Set-back embankments	Not In Place
Improve floodplain connectivity	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Remove obsolete structure	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage) Educate landowners on sensitive management practices (urbanisation)	Not In Place
· · · · · · · · · · · · · · · · · · ·	
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Sediment management strategies (develop and revise)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R14

Waterbody ID and Name: GB106038033330 **Great Hallingbury Brook**

National Grid Reference: TL 51229 20692

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033280

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Moderate Invertebrates Poor (Quite Certain) Technically infeasible (B2a, B2p)

Phytobenthos Moderate Poor (Very Certain) Disproportionately expensive

(P1c)

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Phosphate Moderate (Very Certain) Moderate Disproportionately expensive

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

(P1c)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

Supports Good

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R15 Surveillance site: No

Waterbody ID and Name: GB106038033340 Stort (Stanstead Brook to Farnham Brook)

National Grid Reference: TL 49458 22840

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033320

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Phytobenthos Poor (Very Certain) Poor Disproportionately expensive

(P1c)

(P1c)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen Good Good
pH High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

Temperature High High
Copper High High
Zinc High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good

ow (Uncertain)

Morphology Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R16 Surveillance site: No

Waterbody ID and Name: GB106038033350 Bury Green Brook/Cradle End Brook

National Grid Reference: TL 44516 20197

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033290

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
pН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Certainty of less than 2015 Good status by 2015

Supports Good

good)

Quantity and Dynamics of Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R17 Surveillance site: No

Waterbody ID and Name: GB106038033370 Mimram (tributary below Kimpton)

National Grid Reference: TL 19469 18432

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033270

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
pН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good

Flow (Quite Certain)

Morphology Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R18

Waterbody ID and Name: GB106038033380 Pincey Brook

National Grid Reference: TL 54969 21002

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033280

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Good Invertebrates Good

Phytobenthos Moderate Poor (Very Certain) Technically infeasible (B2a)

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

Phosphate Poor (Very Certain)

Poor High High

Copper High High Zinc High High Ammonia (Annex 8) High High Disproportionately expensive

(P1a)

Supporting conditions

Quantity and Dynamics of

Temperature

Element Current status (and Predicted Status by Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Supports Good Supports Good

Flow Supports Good Supports Good Morphology

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R19 Surveillance site: No

Waterbody ID and Name: GB106038033400 Dane End Tributary

National Grid Reference: TL 33541 21373

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033300

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

ty Good

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than good)

Under the predicted Status by Justification for not achieving good status by 2015 good)

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good рΗ High High Phosphate Good Good High Temperature High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Certainty of less than Predicted Status by Justification for not achieving good status by 2015

good)

Quantity and Dynamics of Does not Support Good

Flow (Uncertain)

Morphology Supports Good

Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R20 Surveillance site: No

Waterbody ID and Name: GB106038033410 Stevenage Brook

National Grid Reference: TL 25806 21408

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033310

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than good status by 2015

good)

Moderate Invertebrates Moderate (Quite Certain) Technically infeasible (B2a, B2p)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Phosphate Poor (Quite Certain) Poor Disproportionately expensive

(P1a) Temperature Moderate (Uncertain) Good

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

> certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support

Flow (Quite Certain) Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Disproportionately expensive

(HR4a)

Waterbody Category and Map Code.: River - R21 Surveillance site: No

Waterbody ID and Name: GB106038033420 The Old Bourne

National Grid Reference: TL 32594 21611

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033300

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Discolused Overses	Caad	Cand	

Ammonia (Phys-Chem) High High

Dissolved Oxygen Good Good

pH High High

Phosphate Good Good

Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Certainty of less than Predicted Status by Justification for not achieving good status by 2015

Supports Good

good)

Quantity and Dynamics of Does not Support Good

Flow (Uncertain)

Morphology Supports Good

upports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment that status is less than good)

River - R22 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106038033430 **Bourne Brook**

National Grid Reference: TL 48817 23041

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033320

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Ammonia (Phys-Chem)

Element Current status (and Predicted Status by Justification for not achieving 2015 good status by 2015

certainty of less than

good)

High High

Dissolved Oxygen Moderate (Uncertain) Moderate Disproportionately expensive

(DO1a)

High pН High

Poor (Uncertain) Phosphate Poor Disproportionately expensive (P1a)

Temperature High High

High Ammonia (Annex 8) High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of

Flow

Supports Good Morphology

(Quite Certain)

Does not Support Good Does not Support Good

Supports Good

Disproportionately expensive

(HR4a)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R23 Surveillance site: No

Waterbody ID and Name: GB106038033450 Cat Brook

National Grid Reference: TL 07539 25105

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106038033440

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Poor (Uncertain)	Poor	Disproportionately expensive (A1a)
Dissolved Oxygen	Bad (Uncertain)	Bad	Disproportionately expensive (DO1a)
pН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	Poor (Uncertain)	Poor	Disproportionately expensive (A1a)

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Does not Support Good (Quite Certain)	Does not Support Good	Disproportionately expensive (HR4a)

Ecological Potential Assessment

Element	Current status	Predicted Status by 2015	Justification for not achieving good status by 2015
Mitigation Measures Assessment	Moderate	Moderate	Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R24 Surveillance site: No

Waterbody ID and Name: GB106038040130 Stort (at Clavering)

National Grid Reference: TL 48083 30468

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033340

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Quite Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Invertebrates Good Good

Phytobenthos Poor (Very Certain) Poor Disproportionately expensive

(P1a)

Supporting elements

Element Current status (and certainty of less than Predicted Status by 2015 Justification for not achieving good status by 2015

good)

Ammonia (Phys-Chem)HighHighDissolved OxygenGoodGoodpHHighHigh

Phosphate Poor (Uncertain) Poor Disproportionately expensive

(P1a)

Temperature High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R25 Surveillance site: No

Waterbody ID and Name: GB106038040140 Rib (upper stretches, above confluence with the

National Grid Reference: TL 36128 30333

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033360

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Moderate (Quite Certain)	Moderate	Disproportionately expensive (HR2a), Technically infeasible (B2a, INNS2a)
Invertebrates	Good	Good	
Phytobenthos	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1b)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Bad (Very Certain)	Bad	Disproportionately expensive (P1b)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Current status (and Predicted Status by Justification for not achieving Element good status by 2015

certainty of less than 2015

good)

Quantity and Dynamics of Does not Support Good

Flow (Uncertain) Morphology Supports Good Does not Support Good

Supports Good

Disproportionately expensive

(HR2a)

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Current status (and Element **Predicted Status by** Justification for not achieving certainty of less than good status by 2015 2015

good)

Lead And Its Compounds High High Nickel And Its Compounds High High

River - R26 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106038040090 Stanstead Brook

National Grid Reference: TL 53631 25944

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033340

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain)

Biological elements

Element **Current status (and**

certainty of less than

good)

Invertebrates Poor (Quite Certain) **Predicted Status by**

2015

Justification for not achieving

good status by 2015

Poor Disproportionately expensive

(HR4a), Technically infeasible

(B2p, INNS2a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	

Temperature High High Arsenic High High Copper High High Iron High High Zinc High

High

High

High

Supporting conditions

Ammonia (Annex 8)

Element Current status (and

certainty of less than good)

Predicted Status by 2015

Does not Support

Justification for not achieving good status by 2015

Quantity and Dynamics of

Flow

Morphology

Does not Support Good (Quite Certain)

Supports Good

Good

Supports Good

Disproportionately expensive

(HR4a)

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Waterbody Category and Map Code.: River - R27 Surveillance site: No

Waterbody ID and Name: GB106038040100 Ash (from Meesden to confluence with Bury Green

National Grid Reference: TL 44275 24758

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033290

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Quite Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Moderate Invertebrates Moderate (Quite Certain) Disproportionately expensive

(HR2a), Technically infeasible (S2b)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Phosphate Good Good Temperature High High Ammonia (Annex 8) High High

good status by 2015

Supporting conditions

Current status (and Predicted Status by Justification for not achieving Element

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow Morphology Does not Support Good

(Uncertain) Supports Good Does not Support Good Supports Good

Disproportionately expensive

(HR2a)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R28 Surveillance site: No

Waterbody ID and Name: GB106038033460 Mimram (St Pauls Walden to Welwyn)

National Grid Reference: TL 19267 20308

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033270

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015 good)

5 ,

Fish Poor (Very Certain) Moderate Disproportionately expensive

Invertebrates High High

(HR4a, M5a), Technically infeasible (S2a)

Supporting elements

Element Current status (and certainty of less than Predicted Status by 2015 Justification for not achieving good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High Phosphate Good Good High Temperature High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive Flow Good (HR4a)

Flow (Uncertain) Good Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R29 Surveillance site: No

Waterbody ID and Name: GB106038033360 Rib (from confluence with Quin to Lee Navigation)

National Grid Reference: TL 39150 20161

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106038033240

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Fish Moderate Moderate (Quite Certain) Disproportionately expensive (M5a), Technically infeasible (S2b)

Invertebrates High High

Phytobenthos Poor (Very Certain) Moderate Disproportionately expensive

(P1a)

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

рΗ

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

High High High High High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive (P1a)

High Temperature High Copper High High Zinc High High

Ammonia (Annex 8) High High

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Does not Support Good Quantity and Dynamics of Does not Support

(Quite Certain)

Flow Good (HR4a) Morphology Supports Good Supports Good

Disproportionately expensive

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R30 Surveillance site: No

Waterbody ID and Name: <u>GB106038033440</u> Houghton Brook

National Grid Reference: TL 06761 24250

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106038033391

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Poor (Uncertain)	Poor	Disproportionately expensive (A1a)
Dissolved Oxygen	Bad (Uncertain)	Bad	Disproportionately expensive (DO1a)
pH	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	Poor (Uncertain)	Poor	Disproportionately expensive (A1a)

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Does not Support Good (Uncertain)	Does not Support Good	Disproportionately expensive (HR2a)

Ecological Potential Assessment

Element	Current status	Predicted Status by 2015	Justification for not achieving good status by 2015
Mitigation Measures	Moderate	Moderate	Technically infeasible (M3a, M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Appropriate water level management strategies, including timing and volume of water moved	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Improve floodplain connectivity	Not In Place
Set-back embankments	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Re-opening existing culverts	Not In Place
Increase in-channel morphological diversity	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R31 Surveillance site: No

Waterbody ID and Name: GB106038033391 Lee (from Luton to Luton Hoo Lakes)

TL 09089 21428 **National Grid Reference:**

Current Overall Potential Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106038033392

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Poor Invertebrates Poor (Very Certain) Disproportionately expensive

(HR4a)

Supporting elements

Current status (and **Predicted Status by** Justification for not achieving Element certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Poor (Very Certain) Poor Technically infeasible (A2b) Dissolved Oxygen Bad (Very Certain) Bad Technically infeasible (DO2b)

pΗ High High Phosphate Good Good Temperature High High

Ammonia (Annex 8) Poor (Very Certain) Poor Technically infeasible (A2b)

Supporting conditions

Current status (and Predicted Status by Justification for not achieving Element certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive

Flow (Quite Certain) Good (HR4a)

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M1a, M1c)

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

River - R32 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106038033392 Lee (from Luton Hoo Lakes to Hertford)

National Grid Reference: TL 19991 13994

Current Overall Potential Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation:

Downstream Waterbody ID: GB106038033230

Ecological Potential

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good Invertebrates Good Good

Phytobenthos Poor (Very Certain) Poor Disproportionately expensive

(P1c)

Supporting elements

Temperature

Arsenic

Copper

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

Phosphate

Poor (Very Certain) Poor

High High High High High High

Iron High Zinc High Ammonia (Annex 8) High Disproportionately expensive

(P1c)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than good status by 2015

High

High

High

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status

Predicted Status by 2015

Justification for not achieving good status by 2015

gation Measures Moderate

Mitigation Measures Assessment Moderate

Technically infeasible (M1k)

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Quite Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Moderate (Quite Certain)	Moderate	Technically infeasible (C2a)
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

B.20 Vale of White Horse river catchment

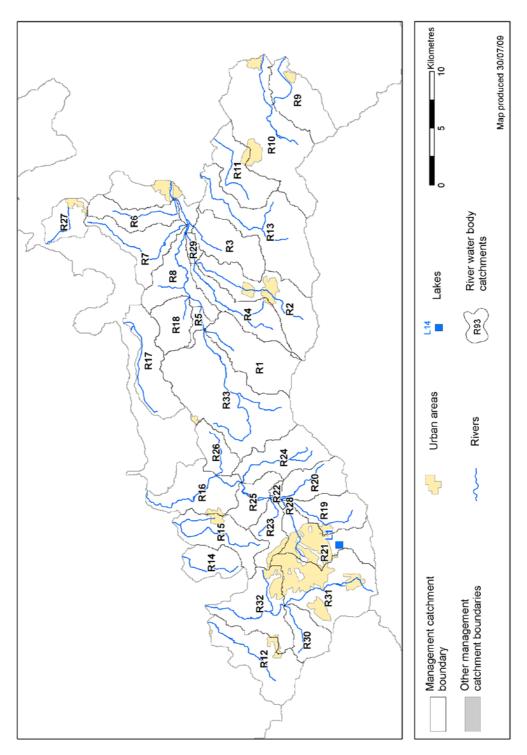
Rivers and Lakes

There are 33 river water bodies (of which 2 are designated as heavily modified) and 1 lake water body (designated as heavily modified) within the Vale of White Horse river catchment.

Figure B.20.1 Status objectives for rivers and lakes in the Vale of White Horse river catchment

	Proposed status/potential objective				
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	7	7	31	24	31
Lakes	0	0	0	0	0
Heavily modified water bodies	1	1	3	2	3
Artificial water bodies	0	0	0	0	0

Figure B.20.2 River and lake water bodies in the Vale of White Horse river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Vale of White Horse catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

River - R1 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Stutfield Brook (source to Ock) GB106039023340

National Grid Reference: SU 35741 92638

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023390

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015 good)

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R2 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039023350 Letcombe Brook

National Grid Reference: SU 40044 89723

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023380

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and**

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Good Good

good)

Supporting elements

Predicted Status by Element **Current status (and** certainty of less than

good)

2015

Justification for not achieving good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High Phosphate Good Good Temperature High High Iron High High Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Element Predicted Status by Current status (and Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Flow

Current Status (and certainty

that status is less than good)

River - R3 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039023360 Cow Common Brook and Portobello Ditch

National Grid Reference: SU 44638 94129

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023430

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Moderate (Uncertain)	Moderate	Disproportionately expensive (A1a)
Dissolved Oxygen	Moderate (Quite Certain)	Moderate	Disproportionately expensive (DO1a)
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	Moderate (Uncertain)	Moderate	Disproportionately expensive (A1a)

Supporting conditions

Element Predicted Status by Justification for not achieving Current status (and certainty of less than 2015 good status by 2015 good)

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R4 Surveillance site: No

Waterbody ID and Name: GB106039023370 Childrey Brook and tributaries

National Grid Reference: SU 39758 93098

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023380

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

good)

Invertebrates Moderate Moderate (Quite Certain) Disproportionately expensive

(A1a), Technically infeasible

Technically infeasible (DO2b)

(DO2b)

Supporting elements

Dissolved Oxygen

Phosphate

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

Poor (Very Certain)

good)

Moderate (Uncertain) Moderate

Ammonia (Phys-Chem) Disproportionately expensive (A1a)

Poor

pН

High High

Poor (Very Certain) Poor Disproportionately expensive

(P1b)

High Temperature High

Ammonia (Annex 8) Moderate (Uncertain) Moderate Disproportionately expensive

(A1a)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Charney Bassett

Waterbody Category and Map Code.: River - R5 Surveillance site: No

Waterbody ID and Name: GB106039023390 Gainfield Brook, Ock, Charney Wick Ditch at

National Grid Reference: SU 38268 94259

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023430

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High
PH High High

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive

(P1a)

Temperature High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow
Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R6 Surveillance site: No

Waterbody ID and Name: GB106039023410 Sandford Brook (source to Ock)

National Grid Reference: SU 46813 97306

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB106039023430

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Biological elements

Element Current status (and **Predicted Status by**

certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Invertebrates Moderate (Quite Certain) Moderate Not Required (MS)

Supporting conditions

Element **Current status (and Predicted Status by**

certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Predicted Status by Element Current status Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status Appropriate channel maintenance strategies and techniques - woody debris In Place Appropriate channel maintenance strategies and techniques - minimise disturbance to channel In Place bed and margins Sediment management strategies (develop and revise) In Place Retain marginal aquatic and riparian habitats (channel alteration) In Place Appropriate techniques (invasive species) In Place Appropriate timing (vegetation control) In Place Appropriate vegetation control technique In Place In Place Selective vegetation control regime Increase in-channel morphological diversity **Not In Place**

Chemical Status

Current Status (and certainty that status is less than good)

River - R7 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039023420 Frilford and Marcham Brook

National Grid Reference: SP 43884 00506

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023430

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Invertebrates Good Good

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Bad (Very Certain) Bad Phosphate

Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Current status (and Predicted Status by Justification for not achieving Element certainty of less than 2015 good status by 2015

Supports Good

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Disproportionately expensive

(P1a)

River - R8 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039023430 Ock and tributaries (Land Brook confluence to

National Grid Reference: SU 43518 96166

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030334

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Fish Good Good Invertebrates High High

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

Phosphate Moderate (Very Certain) Moderate

Temperature High High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High good status by 2015

Disproportionately expensive

(P1a)

Supporting conditions

Quantity and Dynamics of

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Supports Good

Flow Morphology Supports Good Supports Good

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
para - para DDT	High	High	

River - R9 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039023570 Cholsey Brook and tributaries

National Grid Reference: SU 58152 86352

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030331

Ecological Status

Current Status (and certainty that status is less than good) Poor (Uncertain - WoE)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Good Invertebrates Good

Poor Phytobenthos Poor (Very Certain) Technically infeasible (B2r)

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015 good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate High High Temperature High High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Element

Current status (and

certainty of less than 2015

good)

Supports Good

Supports Good

Flow Morphology Supports Good Supports Good

Predicted Status by Justification for not achieving good status by 2015

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

River - R10 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Mill Brook and Bradfords Brook system, GB106039023600

Wallingford **National Grid Reference:** SU 57112 88680

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive **Protected Area Designation:**

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030331

Ecological Status

Current Status (and certainty

Good that status is less than good)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

2015

good status by 2015

certainty of less than

good)

Invertebrates High High

Supporting conditions

Quantity and Dynamics of

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Supports Good

Flow Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Surveillance site: No Waterbody Category and Map Code.: River - R11

Waterbody ID and Name: GB106039023630 Moor Ditch and Ladygrove Ditch

National Grid Reference: SU 50778 91606

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030334 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Current status (and Element

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Poor Poor (Very Certain) Technically infeasible (B2p)

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

High Ammonia (Phys-Chem) High Dissolved Oxygen High High pΗ High High

Moderate (Very Certain) Phosphate

Moderate

Disproportionately expensive

(P1b)

High Temperature High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving good status by 2015

good)

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Surveillance site: No Waterbody Category and Map Code.: River - R12

Waterbody ID and Name: GB106039023650 Key (Source to Thames)

National Grid Reference: SU 08722 90414

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022990

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

Predicted Status by certainty of less than 2015

Justification for not achieving good status by 2015

good)

Good Good Invertebrates

Supporting elements

Element **Current status (and**

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem)

Moderate (Quite Certain)

Moderate

Disproportionately expensive

(A1a)

Dissolved Oxygen

Good High

good)

Good High

Phosphate Poor (Very Certain) Poor

Disproportionately expensive

(P1a)

Temperature Arsenic

pН

Zinc

High High High High High

High

Copper High Iron High

High

High Ammonia (Annex 8) Moderate (Quite Certain) Moderate

Disproportionately expensive

(A1a)

Supporting conditions

Element **Current status (and**

certainty of less than good)

Supports Good

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Predicted Status by

Supports Good

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	

Waterbody Category and Map Code.: River - R13 Surveillance site: No

Waterbody ID and Name: GB106039023660 Ginge Brook and Mill Brook

National Grid Reference: SU 47657 91876

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive, Urban Waste Water Treatment Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030334 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Invertebrates Good Good

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good Quantity and Dynamics of Supports Good

Flow

Supports Good Supports Good Morphology

Chemical Status

Current Status (and certainty Does not require assessment

Surveillance site: No Waterbody Category and Map Code.: River - R14

Waterbody ID and Name: GB106039023680 Share ditch

National Grid Reference: SU 15227 93623

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive, Urban Waste Water Treatment Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022990

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Good Invertebrates Good

Poor Phytobenthos Poor (Very Certain) Disproportionately expensive

(P1a)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High рΗ High High

Bad (Very Certain) Phosphate Bad Disproportionately expensive

(P1a)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Quantity and Dynamics of Supports Good Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R15 Surveillance site: No

Waterbody ID and Name: GB106039023710 Bydemill Brook (Source to Thames)

National Grid Reference: SU 18475 92640

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022990

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than good status by 2015 2015

good status by 2015

good status by 2015

good)

Moderate Invertebrates Moderate (Uncertain) Technically infeasible (A2b)

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving

> certainty of less than 2015

good)

Ammonia (Phys-Chem) Moderate (Very Certain) Moderate Technically infeasible (A2b)

Dissolved Oxygen Good Good High High pΗ

Bad (Very Certain) Bad Phosphate Disproportionately expensive

(P1a)

Temperature High

Ammonia (Annex 8) Moderate Technically infeasible (A2b) Moderate (Very Certain)

Supporting conditions

Current status (and Predicted Status by Justification for not achieving **Element**

certainty of less than 2015

good)

Supports Good Supports Good

Quantity and Dynamics of Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Surveillance site: No Waterbody Category and Map Code.: River - R16

Waterbody ID and Name: GB106039023730 Cole (Bower Bridge to Thames) including Coleshill

National Grid Reference: SU 20847 97083

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030332 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain - WoE)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Moderate (Uncertain) Invertebrates Good Good

Phytobenthos Poor (Very Certain) Poor Disproportionately expensive

(P1c)

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High

Phosphate Moderate (Very Certain) Moderate

High

Disproportionately expensive

(P1c)

Temperature High High Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Current status (and **Predicted Status by** Justification for not achieving Flement 2015 good status by 2015

certainty of less than

good)

Supports Good

Quantity and Dynamics of Flow

Morphology Supports Good Supports Good

Supports Good

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R17 Surveillance site: No

Waterbody ID and Name: GB106039023770 Wadley Stream (Source to Thames at Duxford)

National Grid Reference: SU 32881 99687

Poor **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039030333

Ecological Status

Current Status (and certainty that status is less than good) Poor (Uncertain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Poor (Uncertain) Good Invertebrates Good

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Moderate (Uncertain) Good

pН

Poor (Very Certain) Phosphate

High Poor

Disproportionately expensive

(P1a)

Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Supports Good Supports Good Morphology

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R18 Surveillance site: No

Waterbody ID and Name: GB106039023910 Cherbury Brook and associated tributaries

National Grid Reference: SU 38537 95536

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023430

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Flow

Morphology Supports Good

Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R19 Surveillance site: No

Waterbody ID and Name: GB106039022860 Liden Brook, Swindon

National Grid Reference: SU 19721 83795

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022880

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Good	Good	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Very Certain)	Poor	Disproportionately expensive (P1b)
Temperature	High	High	
Ammonia (Annex 8)	Good	Good	

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015 good)

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R20 Surveillance site: No

Waterbody ID and Name: GB106039022870 Lenta Brook, East of Swindon

National Grid Reference: SU 22998 85135

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022900

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain - WoE)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Good Invertebrates Good

Phytobenthos Moderate (Very Certain) Moderate Technically infeasible (B2a)

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate Good Good Temperature High High

High

good status by 2015

Supporting conditions

Ammonia (Annex 8)

Element Current status (and Predicted Status by Justification for not achieving

High

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R21 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039022890 Cole and Dorcan Brook (Source to Liden Brook

National Grid Reference: SU 18706 85808

Good **Current Overall Potential**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039022880

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving good status by 2015 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins

In Place

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R22

Waterbody ID and Name: GB106039022900 Cole (Acorn Bridge to South Marston Brook)

National Grid Reference: SU 21695 87398

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022930

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than good status by 2015 2015

good)

Moderate Invertebrates Moderate (Quite Certain) Technically infeasible (B2p)

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than

good)

good status by 2015 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Moderate (Very Certain) Phosphate

Moderate Disproportionately expensive (P1a)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Current status (and Predicted Status by Justification for not achieving **Element** certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Supports Good Morphology Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

Waterbody Category and Map Code.: River - R23 Surveillance site: No

Waterbody ID and Name: GB106039022910 South Marston Brook to Swindon

National Grid Reference: SU 19852 87904

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022930

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Quite Certain)

Biological elements

Element Current status (and Predicted Status by

certainty of less than 2015

good)

Invertebrates Moderate (Quite Certain)

Moderate

Justification for not achieving

good status by 2015

Technically infeasible (B2a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

River - R24 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039022920 Tuckmill Brook and tributaries

National Grid Reference: SU 24612 89057

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023730

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Invertebrates Good Good

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Moderate (Uncertain) Moderate Disproportionately expensive Phosphate

(P1b)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Current status (and Predicted Status by Justification for not achieving **Element** certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

River - R25 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039022930 Cole and tributaries at Sevenhampton

National Grid Reference: SU 22609 90377

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023730

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1a)
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of

Flow

Morphology

Supports Good Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R26

Waterbody ID and Name: GB106039022950 Waterloo Ditch (East of Coleshill)

National Grid Reference: SU 25636 92442

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023730

Ecological Status

Current Status (and certainty that status is less than good) Poor (Quite Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Invertebrates Poor Poor (Quite Certain) Technically infeasible (B2a, B2p)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Phosphate Good Temperature High High Ammonia (Annex 8) High High

good)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Morphology Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R27 Surveillance site: No

Waterbody ID and Name: GB106039030210 Filchhampstead Brook at Farmoor

National Grid Reference: SP 45369 05836

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039030332 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Poor (Very Certain)

Moderate (Uncertain) Moderate Invertebrates Technically infeasible (B2p)

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen Good Good pН High High Phosphate Moderate (Uncertain) Good Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R28 Surveillance site: No

Waterbody ID and Name: GB106039022880 Cole (Liden Brook to Lenta Brook)

National Grid Reference: SU 21297 86940

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022900

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High
PH High High

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive (P1a)

Temperature High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require that status is less than good)

Waterbody Category and Map Code.: River - R29 Surveillance site: No

Waterbody ID and Name: GB106039023380 Childrey Brook and Norbrook at Common Barn

National Grid Reference: SU 44101 95129

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023430

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem)HighHighDissolved OxygenHighHighpHHighHigh

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive (P1a)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

River - R30 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB106039023310 Lydiard and Shaw Brooks at Swindon

National Grid Reference: SU 10254 85666

Current Overall Status Good

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive, Urban Waste Water Treatment Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023330

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element Current status (and

certainty of less than 2015

Predicted Status by

Justification for not achieving

good status by 2015

Good Good Invertebrates

good)

Supporting elements

Element **Current status (and**

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

good) Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Good Good Phosphate Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Morphology

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R31 Surveillance site: No

Waterbody ID and Name: GB106039023320 Ray (Wiltshire) source to Lydiard Brook

National Grid Reference: SU 14651 80542

Current Overall Status Good

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023330

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Fish

Invertebrates

Element **Current status (and Predicted Status by** Justification for not achieving 2015

certainty of less than

good) High

Good

High

Good

good status by 2015

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High Phosphate Good Good Temperature High High Ammonia (Annex 8) High High

good status by 2015

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R32 Surveillance site: No

Waterbody ID and Name: GB106039023330 Ray (Wiltshire): Lydiard Brook to Thames

National Grid Reference: SU 11237 90864

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039022990

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good) Good

2015

Good

Good

good status by 2015

Good Invertebrates

Supporting elements

Fish

pН

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) Good Good Dissolved Oxygen High High High High

Phosphate Poor (Very Certain)

Poor Disproportionately expensive (P1c)

High High

Temperature Arsenic High Copper High Iron High Zinc High Ammonia (Annex 8)

High Good Good

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

High

High

High

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

River - R33 Surveillance site: No Waterbody Category and Map Code.:

Ock (Source to Stutfield Brook) and tributaries Waterbody ID and Name: GB106039023400

National Grid Reference: SU 27424 89890

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039023390 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Good Good

good)

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High High High

Phosphate

Moderate (Very Certain) Moderate

High Temperature High Copper High High Zinc High High

Ammonia (Annex 8) High High good status by 2015

Disproportionately expensive

(P1a)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Quantity and Dynamics of

Flow

pΗ

Morphology

Supports Good

Supports Good

Supports Good Supports Good

Current Status (and certainty that status is less than good)

Lake - L1 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30642155 Coate Water

National Grid Reference: SU 17585 82096

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Quantity and Dynamics of

Flow

Supports Good Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Moderate Moderate Mitigation Measures Technically infeasible (M1g)

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

B.21 Wey river catchment

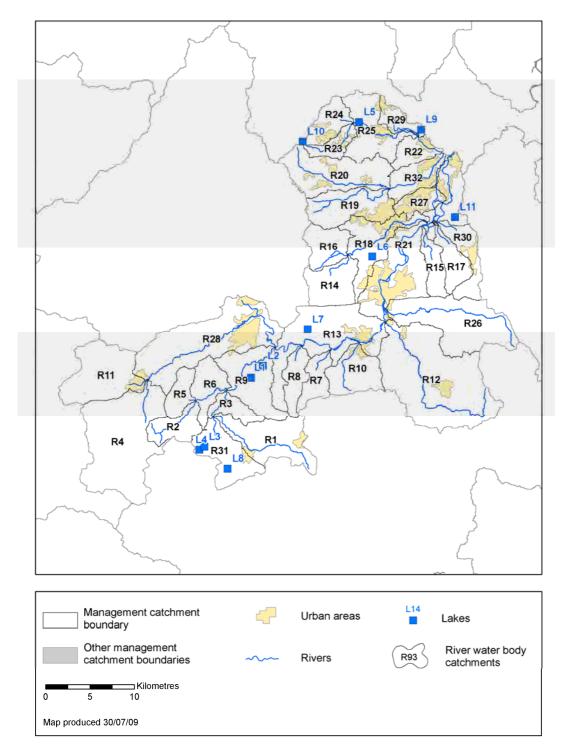
Rivers and Lakes

There are 32 river water bodies (of which 6 are designated as heavily modified) and 11 lake water bodies (of which 5 are designated as heavily modified and 2 as artificial) within the Wey river catchment.

Figure B.21.1 Status objectives for rivers and lakes in the Wey river catchment

	Proposed status/potential objective				
Water body category	Good or high in 2015	Good or high in 2021	Good or high in 2027	Less than good in 2015	Total number of water bodies
Rivers	4	4	26	22	26
Lakes	1	1	4	3	4
Heavily modified water bodies	3	3	11	8	11
Artificial water bodies	2	2	2	0	2

Figure B.21.2 River and lake water bodies in the Wey river catchment Note: This map also includes SSSI ditches, surface water transfers and canals where appropriate



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Water body tables for rivers and lakes in the Wey catchment

This section contains detailed information on the current status and objectives for river and lake water bodies in the catchment. The tables are arranged by water body type (in the order rivers then lakes) and by map code number within these groupings.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Waterbody Category and Map Code.: River - R1 Surveillance site: No

Waterbody ID and Name: GB106039017700 South Wey (Haslemere to Bordon)

National Grid Reference: SU 85491 31822

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039017720 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Poor (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Fish Poor (Very Certain) Poor Disproportionately expensive

Invertebrates Good Good

(B1a)

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than good status by 2015

good)

Ammonia (Phys-Chem) Moderate (Uncertain) Good Dissolved Oxygen High High рΗ High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive

Temperature High High High Copper High Zinc High High Ammonia (Annex 8) Moderate (Uncertain) Good (P1c)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R2 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017710 Oakhanger Stream

National Grid Reference: SU 76671 35351

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039017750 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** 2015

certainty of less than

good)

Good Good Justification for not achieving

good status by 2015

Supporting elements

Invertebrates

Predicted Status by Element **Current status (and** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High

Moderate (Very Certain) Moderate Phosphate

Temperature High High Ammonia (Annex 8) High High

Disproportionately expensive

(P1a)

Supporting conditions

Current status (and Predicted Status by Justification for not achieving Element certainty of less than 2015 good status by 2015

Supports Good

good)

Quantity and Dynamics of Supports Good

Flow

Supports Good Morphology Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Surveillance site: No

Waterbody Category and Map Code.: River - R3

> GB106039017720 South Wey (Bordon to River Slea confluence)

National Grid Reference: SU 81623 37157

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Waterbody ID and Name:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017780

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Fish

Invertebrates

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good) High

High

2015

good status by 2015

Supporting elements

Predicted Status by Element **Current status (and** Justification for not achieving

High

High

certainty of less than good)

High

2015

good status by 2015

Ammonia (Phys-Chem) High Dissolved Oxygen High High pН High

Phosphate Poor (Very Certain)

High Poor

Temperature High High

Copper High High Zinc High High Ammonia (Annex 8) High High Disproportionately expensive

(P1c)

Supporting conditions

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good

Flow

Morphology

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R4 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017730 Caker Stream

National Grid Reference: SU 72547 37675

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039017830 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element **Current status (and**

certainty of less than good)

2015

Justification for not achieving

good status by 2015

Moderate Invertebrates Moderate (Uncertain) Technically infeasible (B2a)

Supporting elements

Predicted Status by Element **Current status (and**

certainty of less than

good)

2015

Predicted Status by

Justification for not achieving

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pΗ High High Moderate (Uncertain) Good Phosphate Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

2015

Predicted Status by

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

Supports Good

Supports Good

Supports Good Supports Good Morphology

good)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R5 Surveillance site: No

Waterbody ID and Name: GB106039017740 Kingsley Stream

National Grid Reference: SU 77980 37650

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017750

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High
PH High High

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive (P1a)

Temperature High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Flow (Uncertain) Good

Morphology Supports Good Supports Good

Does not Support Disproportionately expensive Good (HR2a)

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R6 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017750 Slea (Kingsley to Sleaford)

National Grid Reference: SU 80442 38507

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039017780 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element

certainty of less than

2015

Predicted Status by Justification for not achieving

good status by 2015

Good Good Invertebrates

good)

Supporting elements

Element **Current status (and**

certainty of less than

good)

Predicted Status by

2015

Justification for not achieving

good status by 2015

High Ammonia (Phys-Chem) High Dissolved Oxygen High High pΗ High High

Moderate (Very Certain) Phosphate

Moderate

Disproportionately expensive

(P1a)

High Temperature High Arsenic High High Copper High High Iron High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Flow

Morphology

Does not Support Good (Uncertain)

Supports Good

Good

Does not Support Supports Good

Disproportionately expensive

(HR2a)

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element Current status (and certainty of less than Predicted Status by 2015 Justification for not achieving good status by 2015

good)

Lead And Its Compounds High High
Nickel And Its Compounds High High

Waterbody Category and Map Code.: River - R7 Surveillance site: No

Waterbody ID and Name: GB106039017760 Royal Brook

National Grid Reference: SU 92477 42052

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017820

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High
PH High High

Phosphate Moderate (Uncertain) Moderate Disproportionately expensive (P1a)

Temperature High High

Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Does not Support Good Does not Support Disproportionately expensive Flow Good (HR2a)

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

River - R8 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB106039017770 Truxford Brook

National Grid Reference: SU 89767 43014

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017820

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

High High High High

High pΗ High

Phosphate Moderate (Uncertain) Moderate

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

good)

Does not Support Good Quantity and Dynamics of Flow

(Uncertain)

Good

Morphology Supports Good Supports Good

Does not Support Disproportionately expensive (HR2a)

(P1a)

Disproportionately expensive

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R9 Surveillance site: No

Waterbody ID and Name: GB106039017780 South Wey (River Slea confluence to Tilford)

National Grid Reference: SU 84245 41630

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Bathing Water Directive, Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017820

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Uncertain)

Biological elements

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Fish Poor (Uncertain)

Moderate

Technically infeasible (B2p)

Supporting elements

Element	current status (and certainty of less than good)	2015	good status by 2015
Ammonia (Phys-Cl	nem) High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1b)
Temperature	High	High	

Temperature High High
Arsenic High High
Copper High High
Iron High High
Zinc High High
Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and certainty of less than

good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element Current status (and certainty of less than good)

Current status (and predicted Status by certainty of less than good status by 2015 good status by 2015

Lead And Its Compounds High High
Nickel And Its Compounds High High

RBD: 6 Catchment: Wey

Waterbody Category and Map Code.: River - R10 Surveillance site: No

Waterbody ID and Name: GB106039017790 Ock

National Grid Reference: SU 95007 41548

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017820

Ecological Status

Current Status (and certainty that status is less than good) Good

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than

good)

Invertebrates High High

2015 good status by 2015

Supporting conditions

Predicted Status by Element **Current status (and** Justification for not achieving 2015

certainty of less than

good)

Supports Good

Supports Good

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Chemical Status

Current Status (and certainty

that status is less than good)

Waterbody Category and Map Code.: River - R11 Surveillance site: No

Waterbody ID and Name: GB106039017800 North Wey at Alton

National Grid Reference: SU 72064 39248

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified
Reason for Designation: Urbanisation

Downstream Waterbody ID: GB106039017830

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Does not Support Good (Quite Certain)	Does not Support Good	Disproportionately expensive (HR4a)

Ecological Potential Assessment

Element	Current status	Predicted Status by 2015	Justification for not achieving good status by 2015
Mitigation Measures Assessment	Moderate	Moderate	Technically infeasible (M3b)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R12 Surveillance site: No

Waterbody ID and Name: GB106039017810 Cranleigh Waters

National Grid Reference: TQ 03933 37384

Current Overall Status Bad

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017630

Ecological Status

Current Status (and certainty that status is less than good)

Bad (Very Certain)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Poor	Technically infeasible (B2a)
Invertebrates	Bad (Very Certain)	Bad	Technically infeasible (B2a, B2j, B2p)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	Good	Good	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	Good	Good	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow	Supports Good	Supports Good	
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R13 Surveillance site: No

Waterbody ID and Name: GB106039017820 Wey (Tilford to Shalford)

National Grid Reference: SU 88703 43368

Current Overall Status Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017630

Ecological Status

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Fish	Poor (Very Certain)	Poor	Technically infeasible (B2a, B2p)
Invertebrates	High	High	
Phytobenthos	Poor (Very Certain)	Poor	Disproportionately expensive (P1c)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1c)
Temperature	High	High	
Arsenic	High	High	
Copper	High	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of	Supports Good	Supports Good	

Flow

Morphology

Supports Good Supports Good

Environment Agency, Annex B Thames River Basin District, December 2009

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element Current status (and certainty of less than good)

Current status (and predicted Status by certainty of less than good status by 2015 good status by 2015

Lead And Its Compounds High High
Nickel And Its Compounds High High

River - R14 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: Clasford Brook and Wood Street Brook GB106039017850

National Grid Reference: SU 94673 52824

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017900

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

High

(P1a)

Disproportionately expensive

Ammonia (Phys-Chem) High Dissolved Oxygen High High High pΗ High

Phosphate Moderate (Uncertain)

Moderate

High High

Temperature Ammonia (Annex 8) High High

Supporting conditions

Predicted Status by Element Current status (and Justification for not achieving certainty of less than 2015 good status by 2015

Supports Good

good)

Supports Good Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R15 Surveillance site: No

Waterbody ID and Name: <u>GB106039017860</u> East Clandon Stream

National Grid Reference: TQ 04154 54999

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017630

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
High	High	
High	High	
High	High	
Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
High	High	
High	High	
	certainty of less than good) High High Poor (Uncertain) High	certainty of less than good) High High High High High Poor (Uncertain) High High High

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of	Does not Support Good	Does not Support	Disproportionately expensive
Flow	(Quite Certain)	Good	(HR4a)
Morphology	Supports Good	Supports Good	

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R16 Surveillance site: No

Waterbody ID and Name: GB106039017870 Hoe Stream (Normandy to Pirbright)

National Grid Reference: SU 92735 53087

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) **Status Objective (Overall):** Good by 2015

Status Objective(s): Good Ecological Status by 2015, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017900

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
рН	High	High	
Arsenic	High	High	
Copper	Moderate (Uncertain)	High	
Iron	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than

good)

Supports Good

2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good) Good

Chemical elements

Current status (and **Predicted Status by** Justification for not achieving Element certainty of less than 2015 good status by 2015

good)

Lead And Its Compounds High High Nickel And Its Compounds High High

Waterbody Category and Map Code.: River - R17 Surveillance site: No

Waterbody ID and Name: GB106039017880 Guileshill Brook

National Grid Reference: TQ 05896 56350

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017630

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and certainty of less than good)

Current status (and certainty of less than good)

Description:

Descri

Ammonia (Phys-Chem)HighHighDissolved OxygenHighHighpHHighHighPhosphatePoor (Uncertain)Poor

Temperature High High Ammonia (Annex 8) High High Disproportionately expensive

(P1a)

Supporting conditions

Element Current status (and certainty of less than Current status (and certainty of less than Current status (and certainty of less than 2015 Justification for not achieving good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good Flow

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

River - R18 Waterbody Category and Map Code.: Surveillance site: No

Hoe Stream (Pirbright to River Wey confluence at Waterbody ID and Name: GB106039017900

National Grid Reference: SU 98702 55663

Current Overall Status Poor

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

GB106039017630 **Downstream Waterbody ID:**

Ecological Status

Current Status (and certainty that status is less than good) Poor (Uncertain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than 2015

good)

Fish Poor (Uncertain) Poor Disproportionately expensive

Invertebrates Good Good

Supporting elements

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than good status by 2015

High

good) Ammonia (Phys-Chem) High

Dissolved Oxygen High High рΗ High High

Moderate (Very Certain) Phosphate Moderate

Temperature High High High Copper High Zinc High High Ammonia (Annex 8) High High Disproportionately expensive

(P1c)

(B1a)

Supporting conditions

Quantity and Dynamics of

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Supports Good

Supports Good

Flow Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R19 Surveillance site: No

Waterbody ID and Name:

GB106039017920

Addlestone Bourne (West End to Hale/Mill Bourne confluence at Mimbridge)

National Grid Reference: SU 97454 61442

Current Overall Status Moderate

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017020

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Very Certain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Moderate (Very Certain)	Good	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and predicted Status by certainty of less than 2015 Justification for not achieving good status by 2015

good)

Quantity and Dynamics of Supports Good

Flow

Morphology Supports Good

Supports Good

Supports Good

unnanta Caad

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R20 Surveillance site: No

Waterbody ID and Name: GB106039017930 Hale/Mill Bourne (Bagshot to Addlestone Bourne confluence near Chobham)

National Grid Reference: SU 93692 62364

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017020

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good Good Good Invertebrates

Supporting elements

Predicted Status by Element Current status (and Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High

Phosphate

High

Poor (Very Certain) Moderate Disproportionately expensive

(P1c)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good

Flow

Supports Good Morphology

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R21 Surveillance site: No

Waterbody ID and Name: GB106039017630 Wey (Shalford to River Thames confluence at

Weybridge) **National Grid Reference:** TQ 01734 56057

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Navigation

Downstream Waterbody ID: GB106039023232

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate (Quite Certain) Moderate Not Required (MS)

Invertebrates High High

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

pН

Current status (and Predicted Status by Element Justification for not achieving certainty of less than

High

High

High

High

High

High

High

good)

High High High High

Phosphate Poor (Very Certain)

High High Poor

Temperature High Arsenic High Copper High Iron High Permethrin High Zinc

High Ammonia (Annex 8) High 2015

good status by 2015

Disproportionately expensive

(P1c)

Supporting conditions

Element **Current status (and Predicted Status by**

certainty of less than

good)

Supports Good

2015

Supports Good

Justification for not achieving

good status by 2015

Quantity and Dynamics of

Flow

RBD: 6 Catchment: Wey

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015

good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3g) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Sediment management	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
ncrease in-channel morphological diversity	Not In Place
Bank rehabilitation / reprofiling	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	Not In Place
Prepare a dredging / disposal strategy	Not In Place
Reduce impact of dredging	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Alter timing of dredging / disposal	Not In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	Not In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	Not In Place
Manage disturbance	Not In Place
Selective vegetation control regime	Not In Place
Appropriate vegetation control technique	Not In Place
Appropriate timing (vegetation control)	Not In Place
Appropriate techniques (invasive species)	Not In Place
Modify vessel design	Not In Place
Vessel Management	Not In Place
_ateral zoning to concentrate boats within a central track	Not In Place
Reduce sediment resuspension	Not In Place

Chemical Status

Current Status (and certainty that status is less than good) Fail (Uncertain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Moderate (Uncertain)	Moderate	Technically infeasible (C2a)
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Tributyltin Compounds	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: River - R22 Surveillance site: No

Chertsey Bourne (Chertsey to River Thames Waterbody ID and Name: GB106039017030

National Grid Reference: TQ 04616 66146

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Urbanisation

Downstream Waterbody ID: GB106039023232

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element **Current status (and Predicted Status by** Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Moderate Moderate (Uncertain) Not Required (MS) Moderate (Quite Certain) Moderate Invertebrates Not Required (MS)

Supporting elements

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015 good status by 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

Phosphate Poor (Very Certain) Poor Disproportionately expensive (P1c)

Temperature High High

Copper High High Zinc High High Ammonia (Annex 8) High High

Supporting conditions

Quantity and Dynamics of

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

certainty of less than

good)

Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3a, M3b)
Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Retain marginal aquatic and riparian habitats (channel alteration)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Preserve and, where possible, restore historic aquatic habitats	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R23 Surveillance site: No

Waterbody ID and Name: GB106039017040 Chertsey Bourne (Sunningdale to Virginia Water)

National Grid Reference: SU 94170 66053

Current Overall Status Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017070

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

Supports Good

good)

Quantity and Dynamics of Flow Morphology

• •

Supports Good

Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R24 Surveillance site: No

Waterbody ID and Name: GB106039017050 Chertsey Bourne (Ascot to Virginia Water)

National Grid Reference: SU 95403 69218

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Land Drainage, Urbanisation, Wider Environment

Downstream Waterbody ID: GB106039017070

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and

certainty of less than

good)

Quantity and Dynamics of Supports Good

Flow

Predicted Status by

2015

Justification for not achieving

good status by 2015

Supports Good Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Assessment Moderate Moderate Disproportionately expensive (M2c), Technically infeasible (M3b, M3c)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Increase in-channel morphological diversity	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R25 Surveillance site: No

Waterbody ID and Name: GB106039017070 Chertsey Bourne (Virginia Water to Chertsey)

National Grid Reference: SU 98416 68256

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Natura 2000 (Habitats and/or Birds Directive),

Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Water Regulation (impoundment release)

Downstream Waterbody ID: GB106039017030

Ecological Potential

Current Status (and certainty that status is less than good)

Good

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish Poor (Quite Certain) Poor Not Required (MS)
Invertebrates Moderate (Quite Certain) Moderate Not Required (MS)

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

pН

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

od)

good) High

High

High High High High

PhosphateGoodGoodTemperatureHighHighAmmonia (Annex 8)HighHigh

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Surveillance site: No Waterbody Category and Map Code.: River - R26

Waterbody ID and Name: GB106039017840 Tillingbourne

National Grid Reference: TQ 12226 47001

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017630

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Moderate Moderate (Quite Certain) Disproportionately expensive

Invertebrates High High

(M5a)

Supporting elements

Ammonia (Phys-Chem)

Dissolved Oxygen

рΗ

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than

good)

High High High High High

High

good status by 2015

Phosphate Poor (Very Certain) Poor Disproportionately expensive

Temperature Good Good Copper High High Zinc High High Ammonia (Annex 8) High High

(P1a)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Flow

Morphology

Does not Support Good (Uncertain)

Supports Good

Does not Support Good

Supports Good

Disproportionately expensive

(HR2a)

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Very Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Benzo (a) and (k) fluoranthene	Moderate (Quite Certain)	Moderate	Technically infeasible (C2a)
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Moderate (Very Certain)	Moderate	Technically infeasible (C2a)
Benzo(a)pyrene	High	High	
Fluoranthene	High	High	

Waterbody Category and Map Code.: River - R27 Surveillance site: No

Waterbody ID and Name: GB106039017910 Wey Navigation (Pyrford reach)

National Grid Reference: TQ 05543 61337

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017630

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Very Certain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	Good	Good	
рН	High	High	
Phosphate	Poor (Very Certain)	Moderate	Disproportionately expensive (P1c)
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Quantity and Dynamics of Flow Morphology	Does not Support Good (Quite Certain) Supports Good	Does not Support Good Supports Good	Disproportionately expensive (HR4a)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R28 Surveillance site: No

Waterbody ID and Name: GB106039017830 North Wey (Alton to Tilford)

National Grid Reference: SU 79533 43786

Moderate **Current Overall Status**

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017820

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Very Certain)

Biological elements

Current status (and Element **Predicted Status by** Justification for not achieving

certainty of less than

good)

2015

good status by 2015

Fish Good Good Invertebrates High High

Supporting elements

Element **Current status (and Predicted Status by** Justification for not achieving certainty of less than 2015

good)

Ammonia (Phys-Chem) High High Dissolved Oxygen High High pН High High

Phosphate Poor (Very Certain)

Poor **Temperature**

High High High High High High good status by 2015

Disproportionately expensive

(P1c)

Supporting conditions

Ammonia (Annex 8)

Element **Current status (and Predicted Status by** Justification for not achieving 2015 good status by 2015

High

certainty of less than

good)

High

Supports Good

Quantity and Dynamics of

Flow

Copper

Zinc

Supports Good Morphology

Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R29 Surveillance site: No

Waterbody ID and Name: GB106039017060 The Moat at Egham

National Grid Reference: TQ 01573 68328

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Natura 2000 (Habitats and/or Birds Directive),

Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Land Drainage, Urbanisation, Wider Environment

Downstream Waterbody ID: GB106039017030

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and certainty of less than good)

Ammonia (Phys-Chem)

Current status (and certainty of less than good)

Predicted Status by Justification for not achieving good status by 2015

By 2015

High

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High
Phosphate Poor (Uncertain) Poor

Temperature High High
Ammonia (Annex 8) High High

Supporting conditions

Element

certainty of less than 2015 good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Disproportionately expensive

(P1a)

Quantity and Dynamics of Flow

Does not Support Good (Uncertain)

Current status (and

Does not Support Good Disproportionately expensive (HR4a)

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Assessment Moderate

Moderate

Disproportionately expensive (M2c), Technically infeasible

(M3b, M3c)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Educate landowners on sensitive management practices (urbanisation)	Not In Place
Appropriate techniques to align and attenuate flow to limit detrimental effects of these features (drainage)	Not In Place
Retain marginal aquatic and riparian habitats (channel alteration)	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Alteration of channel bed (within culvert)	Not In Place
Increase in-channel morphological diversity	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R30 Surveillance site: No

Waterbody ID and Name: GB106039017890 Stratford Brook

National Grid Reference: TQ 06709 57237

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017630

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element Current status (and certainty of less than good)

Current status (and predicted Status by Justification for not achieving good status by 2015

good)

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High
Phosphate Poor (Uncertain) Poor

Phosphate Poor (Uncertain) Poor Disproportionately expensive (P1a)

Temperature High High Ammonia (Annex 8) High High

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Quantity and Dynamics of Supports Good Supports Good

Morphology Supports Good Supports Good

Chemical Status

Flow

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: River - R31 Surveillance site: No

Waterbody ID and Name: GB106039017690 Hollywater and Deadwater at Bordon

National Grid Reference: SU 80397 34311

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039017720

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
рН	High	High	
Phosphate	Poor (Uncertain)	Poor	Disproportionately expensive (P1a)
Temperature	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and certainty of less than Predicted Status by 2015 Good status by 2015

Supports Good

good)

Quantity and Dynamics of Flow

Supports Good

Supports Good Supports Good

Chemical Status

Morphology

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: River - R32 Surveillance site: No

Waterbody ID and Name: GB106039017020 Addlestone Bourne (Mill/Hale to Chertsey Bourne)

National Grid Reference: TQ 04523 62725

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB106039023232

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Quite Certain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Fish High High

Invertebrates Moderate (Quite Certain) Moderate Technically infeasible (B2a)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015

good)

good status by 2015

good status by 2015

Quantity and Dynamics of

Flow

Morphology

Supports Good

Supports Good

Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Lake - L1 Surveillance site: Yes

Waterbody ID and Name: GB30644031 Frensham Great Pond

National Grid Reference: SU 84592 40196

Current Overall Potential Poor

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Bathing Water Directive, Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Water Storage - non-specific, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Poor (Very Certain - WoE)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Chironom Invertebrates Poor (Very Certain) Poor Technically infeasible (B2a)

Macrophytes Poor (Very Certain) Poor Not Required (MS)

Phytobenthos Good

Phytoplankton Moderate (Very Certain) Moderate Technically infeasible (P2a)

Good

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 201

good)

2015

good status by 2015

Acid Neutralising Capacity High High

Ammonia (Phys-Chem) High High
Dissolved Oxygen High High

Total Phosphorus Moderate (Quite Certain) Moderate Technically infeasible (P2a)

Ammonia (Annex 8) High High

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty

that status is less than good)

Waterbody Category and Map Code.: Lake - L2 Surveillance site: No

Waterbody ID and Name: GB30643943 Frensham Little Pond

National Grid Reference: SU 85941 41533

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Quite Certain - WoE)

Biological elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Chironom Invertebrates	Moderate (Very Certain)	Moderate	Technically infeasible (B2a)
Macrophytes	Moderate (Quite Certain)	Moderate	Not Required (MS)
Phytobenthos	Good	Good	
Phytoplankton	Moderate (Very Certain)	Moderate	Disproportionately expensive (P1a)

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Acid Neutralising Capacity	High	High	
Ammonia (Phys-Chem)	High	High	
Dissolved Oxygen	High	High	
Ammonia (Annex 8)	High	High	

Supporting conditions

Element Current status (and certainty of less than certainty of less than certainty of less than Current status (and certainty of less than certainty of le

good)

Quantity and Dynamics of Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Wey

Lake - L3 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30644464 Cranmer Pond

National Grid Reference: SU 79322 32359

Good **Current Overall Status**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by**

certainty of less than

good)

Supports Good

good status by 2015

Quantity and Dynamics of

Flow

Morphology Supports Good Supports Good

Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Wey

Lake - L4 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: Woolmer Pond GB30644482

National Grid Reference: SU 78765 32013

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Supports Good Morphology Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L5 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB30642691 Virginia Water

National Grid Reference: SU 96813 69140

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Recreation, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Quite Certain - WoE)

Biological elements

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Macrophytes Moderate (Quite Certain) Moderate Not Required (MS)

Phytoplankton Moderate (Very Certain) Moderate Technically infeasible (B2a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving 2015

certainty of less than

good)

good status by 2015

Total Phosphorus Good Good Copper High High Zinc High High

Ecological Potential Assessment

Element **Current status Predicted Status by** Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

RBD: 6 Catchment: Wey

Lake - L6 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30643359 Whitmoor Common Pond

National Grid Reference: SU 98303 53888

Current Overall Status Moderate Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Morphology Supports Good Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Lake - L7 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30643758 The Tarn

National Grid Reference: SU 91005 45703

Good **Current Overall Potential**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good Supports Good

Quantity and Dynamics of Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving good status by 2015

2015

Good Good

Mitigation Measures Assessment

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: Wey

Lake - L8 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30644576 Forest Mere

National Grid Reference: SU 81953 29928

Current Overall Status Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Supports Good Morphology Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Lake - L9 Surveillance site: No

Waterbody ID and Name: GB30642753 Manor, Fleet, Abbey, St Ann's Lakes atThorpe Park

National Grid Reference: TQ 03812 68308

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Natura 2000 (Habitats and/or Birds Directive),

Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Recreation, Wider Environment

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Good

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Macrophytes Moderate (Quite Certain) Moderate Not Required (MS)

Phytoplankton High High

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015 good)

Dissolved Oxygen High High
Total Phosphorus High
Copper High High
Zinc High High

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Lake - L10 Surveillance site: No

Waterbody ID and Name: GB30642875 Swinley Park Pond

National Grid Reference: SU 90442 66967

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

good status by 2015

Lake - L11 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB30643218 Boldermere

National Grid Reference: TQ 07667 58404

Good **Current Overall Potential**

Good by 2015 Status Objective (Overall):

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified Reason for Designation: Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good) Good

Supporting conditions

Justification for not achieving **Element** Current status (and **Predicted Status by** good status by 2015

certainty of less than

good)

Supports Good Supports Good

Quantity and Dynamics of Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015

Good Good Mitigation Measures

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

B.22 Groundwaters

Groundwater bodies in the Thames river basin district

There are 46 groundwater bodies in the Thames river basin district.

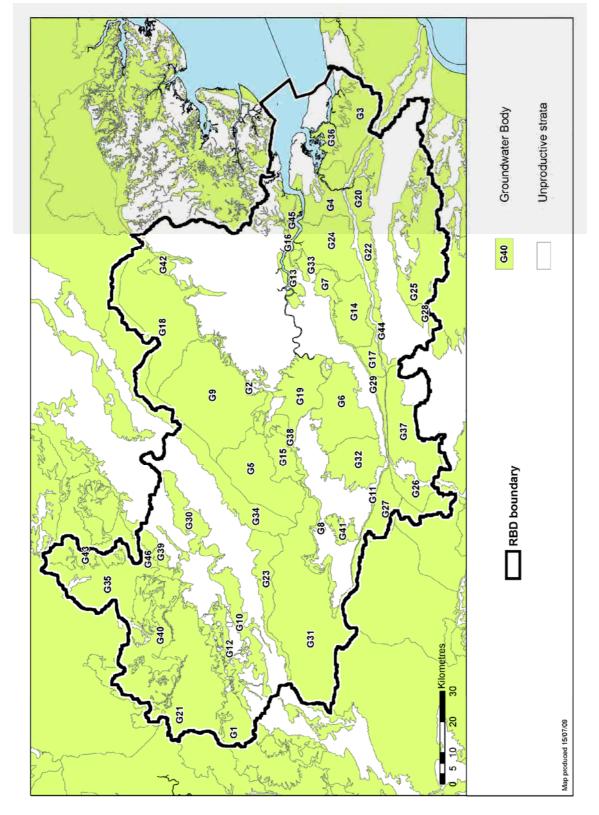


Figure B.22.1 Groundwater bodies in the Thames river basin district

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Water body tables for groundwater in the Thames river basin district

This section contains detailed information on the current status and objectives for groundwater bodies in the Thames river basin district. The tables are arranged by map code number.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Waterbody Category and Map Code.: Groundwater - G1

Waterbody ID and Name: <u>GB40602G600500</u> Kemble Forest Marble

Current Overall Status Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Quantitative Status by 2015, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: Yes

Quantitative Status

Current Status (and confidence in

Good (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Good (Low)	Good	

Chemical Status

Current Status (and confidence

Good (Low)

in this assessment)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures and Risks

Pressures Risk Category Element against which assessed

Nutrients Sitrate General Chemical Test, GWDTE Test, DrWPA Test

Threshold value (TV), trends and other relevant information (for groundwater only)

Substance	TV Units	Exceedance Hazardo	ous Min NBL	Max NBL	•	Starting point for reversing the trend
Ammonia	0.300 mg/l	Yes No	0.300	0.300	Yes	75% of relevant TV
Nitrate	42.000 mg/l	Yes No			No	75% of relevant TV

Waterbody Category and Map Code.: Groundwater - G2

Waterbody ID and Name: <u>GB40602G602800</u> Radlett Tertiaries

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (Low)	Good	,
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Poor (Low)	Good	
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures and Risks

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test

Threshold value (TV), trends and other relevant information (for groundwater only)

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	Yes	No	0.300	0.300	No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	No	Yes			No	75% of relevant TV
Pentachlorophenol	0.670 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	6.988 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	No	Yes			No	75% of relevant TV
TCE	7.500 ug/l	No	Yes			No	75% of relevant TV
Chloroform	3.494 ug/l	No	Yes			No	75% of relevant TV
Zinc (Dissolved)	104.815 ug/l	No	No	7.800	7.800	No	75% of relevant TV
Copper (Dissolved)	13.975 ug/l	Yes	No	4.000	4.000	No	75% of relevant TV
Copper (Total)	13.975 ug/l	Yes	No	4.000	4.000	No	75% of relevant TV
Zinc (Total)	104.815 ug/l	No	No	7.800	7.800	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	No	Yes	10.000	10.000	No	75% of relevant TV
Xylene -p+m	37.500 ug/l	No	Yes			No	75% of relevant TV
Anthracene	0.167 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Naphthalene	4.019 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Chromium (Dissolved)	6.988 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
Nickel (Dissolved)	15.000 ug/l	No	Yes	10.000	10.000	No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	69.877 ug/l	No	No			No	75% of relevant TV
Cadmium (Dissolved)	0.279 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.279 ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	10.062 ug/l	No	Yes			No	75% of relevant TV
Lead (Dissolved)	10.062 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes			No	75% of relevant TV

Waterbody Category and Map Code.: Groundwater - G3

Waterbody ID and Name: <u>GB40601G501700</u> North Kent Swale Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (High)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (High)	Poor	Disproportionately expensive (GQ5a)

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (High)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures and Risks

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Point Sources	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Threshold value (TV), trends and other relevant information (for groundwater only)

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	No	No	0.300	0.300	No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.137 ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			Yes	75% of relevant TV
Simazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
Mecoprop	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Diuron	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	No	Yes			No	75% of relevant TV
Copper (Total)	14.500 ug/l	Yes	No	14.500	14.500	No	75% of relevant TV
Permethrin-cis+trans	0.014 ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	9.140 ug/l	Yes	Yes			No	75% of relevant TV
Cypermethrin	0.075 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.013 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
Dalapon	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Clopyralid	0.075 ug/l	Yes	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Bromate	0.008 mg/l	No	No			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV

Waterbody Category and Map Code.: Groundwater - G4

Waterbody ID and Name: GB40601G500300 North Kent Medway Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations:

Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Poor (High)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (High)	Poor	Disproportionately expensive (GC4a)
General Chemical Test	Poor (Low)	Poor	Technically infeasible (GC1a)
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures and Risks

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Threshold value (TV), trends and other relevant information (for groundwater only)

Substance	TV Units				Max	Upward	Starting point for
					NBL	trend	reversing the trend
Toluene	57.996 ug/l	No	No			No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.128 ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			No	75% of relevant TV
Pentachlorophenol	0.464 ug/l	No	Yes			No	75% of relevant TV
Simazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	5.800 ug/l	No	Yes	1.200	3.500	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Diuron	0.075 ug/l	No	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	No	Yes			No	75% of relevant TV
Ammonia	0.300 mg/l	Yes	No	0.300	0.300	No	75% of relevant TV
Chloroform	2.900 ug/l	Yes	Yes			No	75% of relevant TV
Zinc (Dissolved)	122.000 ug/l	No	No	122.000	171.000	No	75% of relevant TV
Chromium (Dissolved)	5.800 ug/l	No	Yes	1.200	3.500	No	75% of relevant TV
Nickel (Dissolved)	15.000 ug/l	No	Yes	10.000	10.700	No	75% of relevant TV
Mecoprop	0.075 ug/l	No	Yes			No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Arsenic (Dissolved)	7.500 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
Arsenic (Total)	7.500 ug/l	No	Yes	1.000	15.500	No	75% of relevant TV
Copper (Dissolved)	11.599 ug/l	No	No	4.400	14.500	No	75% of relevant TV
Copper (Total)	11.599 ug/l	Yes	No	4.400	14.500	No	75% of relevant TV
Zinc (Total)	122.000 ug/l	Yes	No	122.000	171.000	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	No	Yes	10.000	10.700	No	75% of relevant TV
Xylene -p+m	37.500 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV

Trifluralin	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Lead (Total)	8.351 ug/l	No	Yes	No 75% of relevant TV
Lead (Dissolved)	8.351 ug/l	No	Yes	No 75% of relevant TV
Cadmium (Dissolved)	0.232 ug/l	No	Yes	No 75% of relevant TV
Cadmium (Total)	0.232 ug/l	No	Yes	No 75% of relevant TV
Diazinon	0.012 ug/l	No	Yes	No 75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Sodium	112.500 mg/l	Yes	No	No 75% of relevant TV
Propazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes	No 75% of relevant TV
Fluoride	1.125 mg/l	No	No	No 75% of relevant TV
Mercury	0.750 ug/l	No	Yes	No 75% of relevant TV
MCPA	0.075 ug/l	No	Yes	No 75% of relevant TV
Nitrate	42.000 mg/l	Yes	No	Yes 75% of relevant TV
Dalapon	0.075 ug/l	No	Yes	No 75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes	No 75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes	No 75% of relevant TV

Waterbody ID and Name: <u>GB40601G601100</u> South-West Chilterns Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations:

Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Elem	nent	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drink Area	king Water Protected	Good (High)	Good	
Gene	eral Chemical Test	Good (Low)	Good	
Impa	ct on Wetlands	Good (Low)	Good	
Impa	ct On Surface Waters	Poor (Low)	Poor	Technically infeasible (GC1a)
Salin	e Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV	Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
TCE	7.500	ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	3.130	•	Yes	Yes			No	75% of relevant TV
Zinc (Dissolved)	90.922	ug/l	Yes	No	0.000	74.500	No	75% of relevant TV
Chromium	6.061	ug/l	Yes	Yes	0.000	1.900	No	75% of relevant TV
(Dissolved) Nickel (Dissolved)	15.000	ua/l	No	Yes	0.000	12.350	No	75% of relevant TV
Mecoprop	0.075	Ü	Yes	Yes	0.000	12.000	No	75% of relevant TV
Benzene	0.750	Ü	No	Yes			No	75% of relevant TV
Toluene	62.595	Ü	No	No			No	75% of relevant TV
Diuron	0.075	Ü	Yes	Yes			No	75% of relevant TV
Bentazone	0.075	Ü	No	Yes			No	75% of relevant TV
Arsenic (Total)	7.500	Ü	No	Yes	3.400	4.000	No	75% of relevant TV
Copper (Dissolved)	12.123	Ü	No	No	0.000	20.400	No	75% of relevant TV
Copper (Total)	12.047	Ü	Yes	No	0.000	20.400	Yes	75% of relevant TV
Zinc (Total)	90.353	Ü	Yes	No	0.000	74.500	No	75% of relevant TV
Nickel (Total)	15.000	Ü	Yes	Yes	0.000	12.350	No	75% of relevant TV
Xylene -p+m	37.500	Ü	No	Yes			No	75% of relevant TV
Anthracene	0.150	Ü	No	Yes			No	75% of relevant TV
Phenol	7.500	Ü	No	No			No	75% of relevant TV
Naphthalene	3.609	Ü	No	Yes			No	75% of relevant TV
1,1,2-	7.500	Ü	No	Yes			No	75% of relevant TV
Trichloroethane Permethrin-cis+trans	0.013	Ü	No	Yes			No	75% of relevant TV
		Ü			0.000	0.750		
Ammonia	0.300	Ü	No	No	0.000	0.750	No	75% of relevant TV
Chlorfenvinphos	0.075	Ü	No	Yes			No	75% of relevant TV
Fluoranthene	0.137	Ü	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250	ug/l	Yes	Yes			No	75% of relevant TV
Pentachlorophenol	0.601	ug/l	No	Yes			No	75% of relevant TV
Simazine	0.075	ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075	ug/l	Yes	Yes			No	75% of relevant TV
Isoproturon	0.075	ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	6.024	ug/l	Yes	Yes	0.000	1.900	No	75% of relevant TV
1,1,1- Trichloroethane	7.500	ug/l	No	Yes			No	75% of relevant TV
PCE	7.500	ug/l	Yes	Yes			No	75% of relevant TV
Lead (Total)	8.674	ug/l	Yes	Yes			No	75% of relevant TV
Lead (Dissolved)	8.729	ug/l	No	Yes			No	75% of relevant TV
Cypermethrin	0.075	ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.243	ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.241	ug/l	No	Yes			No	75% of relevant TV

Diazinon	0.012 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No	7.500	7.500	No	75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Sodium	112.500 mg/l	Yes	No	21.900	21.900	No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No	0.330	0.326	No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Dalapon	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes	2.800	2.800	No	75% of relevant TV
Boron	750.000 ug/l	Yes	No	86.900	86.900	No	75% of relevant TV
Clopyralid	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Chloride	41.000 mg/l	No	No	41.000	41.000	No	75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV

GB40602G601400 **Chobham Bagshot Beds** Waterbody ID and Name:

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures and Risks

Pressures Risk Category Element against which assessed

Hazardous Substances and other pollutants General Chemical Test, GWDTE Test, Urbanisation

DrWPA Test, GW-SW Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	Yes	No	0.300	0.300	No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	No	Yes			No	75% of relevant TV
Pentachlorophenol	0.699 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	8.741 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	No	Yes			No	75% of relevant TV
TCE	7.500 ug/l	No	Yes			No	75% of relevant TV
Chloroform	4.371 ug/l	No	Yes			No	75% of relevant TV
Nickel (Dissolved)	20.500 ug/l	Yes	Yes	20.500	20.500	No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	87.413 ug/l	No	No			No	75% of relevant TV
Copper (Dissolved)	17.483 ug/l	No	No	5.800	5.800	No	75% of relevant TV
Copper (Total)	17.483 ug/l	Yes	No	5.800	5.800	No	75% of relevant TV
Zinc (Total)	337.500 ug/l	Yes	No	337.500	337.500	No	75% of relevant TV
Nickel (Total)	20.500 ug/l	Yes	Yes	20.500	20.500	No	75% of relevant TV
Xylene -p+m	37.500 ug/l	No	Yes			No	75% of relevant TV
Anthracene	0.175 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Naphthalene	4.196 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Zinc (Dissolved)	337.500 ug/l	Yes	No	337.500	337.500	No	75% of relevant TV
Chromium (Dissolved)	8.741 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
Lead (Total)	12.587 ug/l	No	Yes			No	75% of relevant TV
Lead (Dissolved)	12.587 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.350 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.350 ug/l	Yes	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G602300</u> Bromley Tertiaries

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	,
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test

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Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
MCPA	0.075 ug/l	No	Yes			No	75% of relevant TV
Dalapon	0.075 ug/l	No	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	No	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	No	Yes			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G601600</u> Thatcham Tertiaries

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (Low)	Good	,
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Poor (Low)	Poor	Disproportionately expensive (GC4a)
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test,

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Copper (Total)	11.990 ug/l	Yes	No	4.000	5.800	No	75% of relevant TV
Zinc (Total)	89.928 ug/l	Yes	No	7.800	337.500	No	75% of relevant TV
Ammonia	0.300 mg/l	No	No	0.300	0.300	No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	5.995 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	No	Yes			No	75% of relevant TV
TCE	7.500 ug/l	No	Yes			No	75% of relevant TV
Chloroform	3.027 ug/l	No	Yes			No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	60.533 ug/l	No	No			No	75% of relevant TV
Nickel (Total)	15.000 ug/l	No	Yes	10.000	20.500	No	75% of relevant TV
Xylene -p+m	36.320 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	8.633 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.240 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40601G601200</u> Mid-Chilterns Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Protected Area Designation:

Disproportionately expensive, Technically infeasible

Drinking Water Protected Area, Nitrates Directive

iot good status by 2013.

Groundwater body has an upward

trend in pollutant concentrations: Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (High)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (High)	Poor	Disproportionately expensive (GQ5b)
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Poor (High)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (High)	Poor	Technically infeasible (GC1a)
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Point Sources	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	Yes	No	0.300	0.750	No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.137 ug/l	Yes	Yes			No	75% of relevant TV
Simazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			Yes	75% of relevant TV
Mecoprop	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Diuron	0.075 ug/l	Yes	Yes			Yes	75% of relevant TV
Bentazone	0.075 ug/l	No	Yes			No	75% of relevant TV
Copper (Total)	13.699 ug/l	Yes	No	4.000	20.400	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	Yes	Yes	10.000	12.350	No	75% of relevant TV
Permethrin-cis+trans	0.014 ug/l	No	Yes			No	75% of relevant TV
Cypermethrin	0.075 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.014 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			No	75% of relevant TV
Dalapon	0.075 ug/l	No	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes			Yes	75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes			Yes	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Bromate	0.008 mg/l	No	No			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: GB40602G600600 Shrivenham Corallian

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2015, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation:

Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations:

No

Quantitative Status

Current Status (and confidence in

this assessment)

Good (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (High)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

E	lement	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
	Prinking Water Protected	Good (Low)	Good	
G	General Chemical Test	Good (Low)	Good	
lr	mpact on Wetlands	Good (Low)	Good	
lr	mpact On Surface Waters	Poor (Low)	Poor	Technically infeasible (GC1a)
S	aline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Nutrients	Phosphate	General Chemical Test, GWDTE Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test

Substance	TV Units	Exceedance H	lazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	Yes	No	0.300	0.300	Yes	75% of relevant TV
Phosphate	154.683 ug/l	Yes	No	84.500	84.500	No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G601700</u> Old Basing Tertiaries

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation:

Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	,
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element Current status (and confidence)		Predicted Status by Justification for not ac 2015 good status by 2015		
Drinking Water Protected Area	Good (Low)	Good		
General Chemical Test	Good (Low)	Good		
Impact on Wetlands	Good (Low)	Good		
Impact On Surface Waters	Good (Low)	Good		
Saline Intrusion	Good (High)	Good		

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients, Hazardous Substances and other pollutants	GWDTE (chemical)	GWDTE Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40603G000200</u> Upper Thames Gravels

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2015, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Good (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Poor (Low)	Poor	Disproportionately expensive (GC4a)
Impact on Wetlands	Good (Low)	Good	•
Impact On Surface Waters	Good (High)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	RISK Category	Element against which assessed
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Nutrients	Trends in Nitrate	GWDTF Test, DrWPA Test

Substance	TV Units	Exceedance Hazard	ous Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	No No	0.000	0.300	No	75% of relevant TV
Nitrate	42.000 mg/l	Yes No			No	75% of relevant TV

Waterbody ID and Name: GB40602G602500 **Greenwich Tertiaries**

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations:

Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Poor (Low)	Poor	Disproportionately expensive (GQ1a)
Water Balance	Good (High)	Good	,

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (Low)	Poor	Technically infeasible (GC1a)
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Poor (Low)	Poor	Disproportionately expensive (GQ1a)

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test
Abstraction and other artificial flow pressures	Saline Intrusion	General Chemical Test, Saline Intrusion Test, DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Lead (Total)	18.750 ug/l	No	Yes			No	75% of relevant TV
Lead (Dissolved)	18.750 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	3.750 ug/l	Yes	Yes			No	75% of relevant TV
Cadmium (Total)	3.750 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Electrical conductivity	1875.000 uS/cm	Yes	No			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: GB40601G602200 **Epsom North Downs Chalk**

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (High)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Nutrients	Phosphate	General Chemical Test, GWDTE Test, GWSW Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Threshold value (1 v), trenus and oti	ier reievant inio	mation (ioi g	jrouriuwater	Offig)		
Substance	TV Units	s Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Xylene -p+m	36.967 ug/l	No	Yes			No	75% of relevant TV
Anthracene	0.137 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Ammonia	0.300 mg/l	Yes	No	0.300	0.750	No	75% of relevant TV
Phosphate	129.000 ug/l	Yes	No	129.000	192.000	No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.137 ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			No	75% of relevant TV
Pentachlorophenol	0.547 ug/l	No	Yes			No	75% of relevant TV
Simazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	5.225 ug/l	Yes	Yes	1.200	1.900	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Arsenic (Total)	7.500 ug/l	Yes	Yes	1.000	4.000	No	75% of relevant TV
Copper (Dissolved)	14.500 ug/l	Yes	No	14.500	20.400	No	75% of relevant TV
Copper (Total)	14.500 ug/l	Yes	No	14.500	20.400	No	75% of relevant TV
Zinc (Total)	78.370 ug/l	Yes	No	74.500	171.000	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	Yes	Yes	10.000	12.350	No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Naphthalene	3.283 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Permethrin-cis+trans	0.010 ug/l	No	Yes			No	75% of relevant TV
TCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	2.612 ug/l	Yes	Yes			No	75% of relevant TV
Zinc (Dissolved)	78.370 ug/l	Yes	No	74.500	171.000	No	75% of relevant TV
Chromium (Dissolved)	5.225 ug/l	Yes	Yes	1.200	1.900	No	75% of relevant TV
Nickel (Dissolved)	15.000 ug/l	No	Yes	10.000	12.350	No	75% of relevant TV
Mecoprop	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	52.247 ug/l	No	No			No	75% of relevant TV
Diuron	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Lead (Dissolved)	7.524 ug/l	No	Yes			No	75% of relevant TV
Cypermethrin	0.075 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.209 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.010 ug/l	No	Yes			No	75% of relevant TV

				NDD
Lead (Total)	7.524 ug/l	Yes	Yes	No 75% of relevant TV
Cadmium (Total)	0.209 ug/l	No	Yes	No 75% of relevant TV
Nitrate	42.000 mg/l	Yes	No	No 75% of relevant TV
Dalapon	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Aluminium	150.000 ug/l	No	Yes	No 75% of relevant TV
Glyphosate	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Chlortoluron	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Carbetamide	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Carbendazim	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Boron	750.000 ug/l	Yes	No	No 75% of relevant TV
Clopyralid	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes	No 75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Sodium	112.500 mg/l	Yes	No	No 75% of relevant TV
Propazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes	No 75% of relevant TV
Fluoride	1.125 mg/l	No	No	No 75% of relevant TV
Mercury	0.750 ug/l	No	Yes	No 75% of relevant TV
MCPA	0.075 ug/l	Yes	Yes	No 75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes	No 75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes	No 75% of relevant TV

Waterbody ID and Name: <u>GB40601G602600</u> Maidenhead Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

s by 2015:

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GO1c)

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (High)	Good	
General Chemical Test	Poor (Low)	Poor	Technically infeasible (GC1a)
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Point Sources	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL		Starting point for
1,1,2-	7.500 ug/l	No	Yes		NDL	trend No	reversing the trend 75% of relevant TV
Trichloroethane Permethrin-cis+trans	0.015 ug/l	No	Yes			No	75% of relevant TV
Nickel (Total)	15.000 ug/l	Yes	Yes	7.500	12.350	No	75% of relevant TV
Xylene -p+m	37.500 ug/l	No	Yes			No	75% of relevant TV
Anthracene	0.150 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Naphthalene	3.609 ug/l	No	Yes			No	75% of relevant TV
Ammonia	0.300 mg/l	Yes	No	0.070	0.750	No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.150 ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			No	75% of relevant TV
Pentachlorophenol	0.601 ug/l	No	Yes			No	75% of relevant TV
Simazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	7.519 ug/l	Yes	Yes	1.000	1.900	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	Yes	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	3.759 ug/l	Yes	Yes			No	75% of relevant TV
Zinc (Dissolved)	112.782 ug/l	No	No	30.000	74.500	No	75% of relevant TV
Chromium (Dissolved)	7.519 ug/l	Yes	Yes	1.000	1.900	No	75% of relevant TV
Nickel (Dissolved)	15.000 ug/l	No	Yes	7.500	12.350	No	75% of relevant TV
Mecoprop	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	75.188 ug/l	No	No			No	75% of relevant TV
Diuron	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Copper (Dissolved)	15.038 ug/l	Yes	No	5.980	20.400	No	75% of relevant TV
Copper (Total)	15.038 ug/l	Yes	No	5.980	20.400	No	75% of relevant TV
Zinc (Total)	112.782 ug/l	Yes	No	30.000	74.500	No	75% of relevant TV
Lead (Total)	10.827 ug/l	Yes	Yes			No	75% of relevant TV
Lead (Dissolved)	10.827 ug/l	No	Yes			No	75% of relevant TV
Cypermethrin	0.075 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.301 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.301 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.015 ug/l	No	Yes			No	75% of relevant TV

Nitrate	42.000 mg/l	Yes	No	7.500	7.500	No	75% of relevant TV
Carbetamide	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Boron	750.000 ug/l	Yes	No	86.900	86.900	No	75% of relevant TV
Clopyralid	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Sodium	112.500 mg/l	Yes	No	21.900	21.900	No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
Dalapon	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes	2.800	2.800	No	75% of relevant TV
Glyphosate	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No	0.330	0.326	No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Chloride	41.000 mg/l	No	No	41.000	41.000	No	75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes			No	75% of relevant TV
Bromate	0.008 mg/l	No	No			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV

GB40602G401000 Waterbody ID and Name: South Essex Lower London Tertiaries

Current Overall Status Good

Status Objective (Overall): Good by 2015

Good Quantitative Status by 2015, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Good (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence

in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Point Sources	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Phosphate	General Chemical Test, GWDTE Test, GWSW Test
Hazardous Substances and other pollutants	List I Substances	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Abstraction and other artificial flow pressures	Saline Intrusion	General Chemical Test, Saline Intrusion Test, DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Copper (Dissolved)	21.325 ug/l	No	No	14.500	14.500	No	75% of relevant TV
Copper (Total)	21.325 ug/l	No	No	14.500	14.500	No	75% of relevant TV
Zinc (Total)	171.000 ug/l	No	No	171.000	171.000	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	No	Yes	10.000	10.000	No	75% of relevant TV
Xylene -p+m	37.500 ug/l	No	Yes			No	75% of relevant TV
Pentachlorophenol	0.853 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	10.662 ug/l	No	Yes	1.200	1.200	No	75% of relevant TV
1,1,1-	7.500 ug/l	No	Yes			No	75% of relevant TV
Trichloroethane PCE	7.500 ug/l	No	Yes			No	75% of relevant TV
TCE	7.500 ug/l	No	Yes			No	75% of relevant TV
Chloroform	5.331 ug/l	No	Yes			No	75% of relevant TV
Zinc (Dissolved)	171.000 ug/l	No	No	171.000	171.000	No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Ammonia	0.300 mg/l	Yes	No	0.300	0.300	No	75% of relevant TV
Phosphate	129.000 ug/l	No	No	129.000	129.000	No	75% of relevant TV
Fluoranthene	0.298 ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	No	Yes			No	75% of relevant TV
Chromium (Dissolved)	10.662 ug/l	No	Yes	1.200	1.200	No	75% of relevant TV
Nickel (Dissolved)	15.000 ug/l	No	Yes	10.000	10.000	No	75% of relevant TV
Benzene	0.750 ug/l	Yes	Yes			No	75% of relevant TV
Toluene	106.624 ug/l	No	No			No	75% of relevant TV
Arsenic (Total)	7.500 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	15.354 ug/l	No	Yes			No	75% of relevant TV
Lead (Dissolved)	15.354 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.426 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.426 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Electrical conductivity	1875.000 uS/cm	No	No			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes			No	75% of relevant TV
Bromate	0.008 mg/l	No	No			No	75% of relevant TV

Waterbody ID and Name: GB40601G602100 Dorking North Downs Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward trend in pollutant concentrations:

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	,
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Ammonia	0.300 mg/l	Yes	No	0.300	0.300	No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	3.453 ug/l	Yes	Yes			No	75% of relevant TV
Arsenic (Total)	7.500 ug/l	No	Yes	1.000	15.500	No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			No	75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40601G602900</u> Upper Lee Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

2015.

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations:

Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (High)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (High)	Poor	Disproportionately expensive (GQ5b)
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Poor (High)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (High)	Poor	Disproportionately expensive (GC4a)
General Chemical Test	Poor (Low)	Poor	Technically infeasible (GC1a)
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test
Hazardous Substances and other pollutants	Point Sources	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test

Substance	TV Uni	ts Exceedance	Hazardous	Min NBL	Max		Starting point for
4.4.0	7.500//	No	Yes		NBL	trend No	reversing the trend 75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No				NO	
Ammonia	0.300 mg/		No	0.070	0.750	No	75% of relevant TV
Permethrin-cis+trans	0.011 ug/l	No	Yes			No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.108 ug/l	Yes	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			No	75% of relevant TV
Simazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	Yes	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	2.687 ug/l	Yes	Yes			No	75% of relevant TV
Mecoprop	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Diuron	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	No	Yes			No	75% of relevant TV
Copper (Total)	10.748 ug/l	Yes	No	4.000	20.400	Yes	75% of relevant TV
Nickel (Total)	15.000 ug/l	Yes	Yes	7.500	12.350	No	75% of relevant TV
Cypermethrin	0.075 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.011 ug/l	Yes	Yes			No	75% of relevant TV
Nitrate	42.000 mg/	Yes	No	7.500	7.500	Yes	75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
Dalapon	0.075 ug/l	No	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes	2.800	2.800	No	75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No	86.900	86.900	No	75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	No	Yes			No	75% of relevant TV

1,2-dichloroethane	2.250 ug/l	No	Yes	No	75% of relevant TV
Bromate	0.008 mg/l	No	No	No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes	No	75% of relevant TV

Waterbody ID and Name: <u>GB40603G000300</u> Lower Thames Gravels

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2015, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Good (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Technically infeasible (GC1a)
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Threshold value (TV)							
Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	Yes	No	0.300	0.300	No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.552 ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	No	Yes			No	75% of relevant TV
Pentachlorophenol	2.208 ug/l	No	Yes			No	75% of relevant TV
Simazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	7.622 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 ug/l	No	Yes			No	75% of relevant TV
Chloroform	3.811 ug/l	No	Yes			No	75% of relevant TV
Zinc (Dissolved)	114.329 ug/l	No	No	7.800	7.800	No	75% of relevant TV
Chromium (Dissolved)	7.622 ug/l	Yes	Yes	1.000	1.000	No	75% of relevant TV
Nickel (Dissolved)	15.000 ug/l	No	Yes	10.000	10.000	No	75% of relevant TV
Mecoprop	0.075 ug/l	No	Yes			No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	76.219 ug/l	No	No			No	75% of relevant TV
Diuron	0.075 ug/l	No	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	No	Yes			No	75% of relevant TV
Copper (Dissolved)	15.244 ug/l	Yes	No	4.000	4.000	No	75% of relevant TV
Copper (Total)	15.244 ug/l	No	No	4.000	4.000	No	75% of relevant TV
Zinc (Total)	114.329 ug/l	No	No	7.800	7.800	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	No	Yes	10.000	10.000	No	75% of relevant TV
Xylene -p+m	37.500 ug/l	No	Yes			No	75% of relevant TV
Anthracene	0.552 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Naphthalene	13.251 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Permethrin-cis+trans	0.015 ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	10.976 ug/l	No	Yes			No	75% of relevant TV
Lead (Dissolved)	10.976 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.305 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.305 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.015 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			No	75% of relevant TV

Dalapon	0.075 ug/l	No	Yes	No 75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes	No 75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes	No 75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes	No 75% of relevant TV
Trietazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Terbutryn	0.075 ug/l	No	Yes	No 75% of relevant TV
Sodium	112.500 mg/l	No	No	No 75% of relevant TV
Propazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Aluminium	150.000 ug/l	No	Yes	No 75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes	No 75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes	No 75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes	No 75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes	No 75% of relevant TV
Boron	750.000 ug/l	No	No	No 75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes	No 75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes	No 75% of relevant TV
Trifluralin	0.075 ug/l	No	Yes	No 75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes	No 75% of relevant TV
Fluoride	1.125 mg/l	No	No	No 75% of relevant TV
Mercury	0.750 ug/l	No	Yes	No 75% of relevant TV
MCPA	0.075 ug/l	No	Yes	No 75% of relevant TV

Waterbody ID and Name: <u>GB40601G500400</u> Kent Greensand Middle

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (Low)	Good	
Water Balance	Good (Low)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (High)	Good	
General Chemical Test	Poor (Low)	Poor	Disproportionately expensive (GC4a)
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Point Sources	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max		Starting point for
Circaria a	0.075//	V	Vaa		NBL	trend	reversing the trend
Simazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	6.234 ug/l	Yes	Yes	1.200	3.500	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	3.117 ug/l	Yes	Yes			No	75% of relevant TV
Zinc (Dissolved)	122.000 ug/l	No	No	122.000	171.000	No	75% of relevant TV
Mecoprop	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Ammonia	0.300 mg/l	No	No	0.300	0.300	No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.143 ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			No	75% of relevant TV
Pentachlorophenol	0.848 ug/l	No	Yes			No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	62.344 ug/l	No	No			No	75% of relevant TV
Diuron	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	No	Yes			No	75% of relevant TV
Arsenic (Total)	7.500 ug/l	No	Yes	1.000	15.500	No	75% of relevant TV
Copper (Total)	12.469 ug/l	Yes	No	4.400	14.500	No	75% of relevant TV
Zinc (Total)	122.000 ug/l	Yes	No	122.000	171.000	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	Yes	Yes	10.000	10.700	No	75% of relevant TV
Xylene -p+m	37.407 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Naphthalene	3.061 ug/l	No	Yes			No	75% of relevant TV
1,1,2-	7.500 ug/l	No	Yes			No	75% of relevant TV
Trichloroethane Lead (Total)	8.978 ug/l	Yes	Yes			No	75% of relevant TV
Lead (Dissolved)	9.140 ug/l	No	Yes			No	75% of relevant TV
Cypermethrin	0.075 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.249 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.013 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			No	75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Sodium	112.500 mg/l	Yes	No			No	75% of relevant TV
	=						

Propazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes	No 75% of relevant TV
Fluoride	1.125 mg/l	No	No	No 75% of relevant TV
Mercury	0.750 ug/l	No	Yes	No 75% of relevant TV
MCPA	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Dalapon	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Aluminium	150.000 ug/l	No	Yes	No 75% of relevant TV
Glyphosate	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Chlortoluron	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes	No 75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes	No 75% of relevant TV
Boron	750.000 ug/l	No	No	No 75% of relevant TV
Clopyralid	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes	No 75% of relevant TV
Bromate	0.008 mg/l	No	No	No 75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes	No 75% of relevant TV

Waterbody ID and Name: GB40601G600400 **Burford Jurassic**

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations:

Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Poor (High)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (High)	Poor	Disproportionately expensive (GC4a)
General Chemical Test	Good (Low)	Good	`
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	s Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Nutrients, Hazardous Substances and other pollutants	GWDTE (chemical)	GWDTE Test
Hazardous Substances and other pollutants Nutrients, Abstraction and other artificial flo pressures	•	DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NRI	Max	Unward	Starting point for
Substance	iv onits	Exceedance	пагагиоиѕ	WIIII NDL	NBL	trend	reversing the trend
Arsenic (Total)	7.500 ug/l	No	Yes	1.000	3.400	No	75% of relevant TV
Copper (Dissolved)	10.101 ug/l	Yes	No	0.000	25.850	No	75% of relevant TV
Anthracene	0.101 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Naphthalene	2.424 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	5.051 ug/l	No	Yes	0.000	1.000	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Ammonia	0.300 mg/l	No	No	0.000	0.300	No	75% of relevant TV
Phosphate	121.212 ug/l	Yes	No	50.000	50.000	No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			No	75% of relevant TV
Pentachlorophenol	0.404 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	2.525 ug/l	Yes	Yes			No	75% of relevant TV
Zinc (Dissolved)	75.758 ug/l	Yes	No	0.000	113.750	No	75% of relevant TV
Chromium (Dissolved)	5.051 ug/l	Yes	Yes	0.000	1.000	Yes	75% of relevant TV
Nickel (Dissolved)	15.000 ug/l	No	Yes	0.000	10.000	No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	50.505 ug/l	No	No			No	75% of relevant TV
Copper (Total)	10.101 ug/l	Yes	No	0.000	25.850	Yes	75% of relevant TV
Zinc (Total)	75.758 ug/l	Yes	No	0.000	113.750	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	No	Yes	0.000	10.000	No	75% of relevant TV
Xylene -p+m	30.303 ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	7.273 ug/l	No	Yes			No	75% of relevant TV
Lead (Dissolved)	7.273 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.202 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.202 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			Yes	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Sodium	112.500 mg/l	Yes	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40601G500500</u> Kent Greensand Western

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	,
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Nutrients	Phosphate	General Chemical Test, GWDTE Test, GW-SW Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV Unit	s Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	No	No	0.300	0.300	No	75% of relevant TV
Phosphate	297.000 ug/l	No	No	297.000	297.000	No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			No	75% of relevant TV
Pentachlorophenol	0.499 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	6.234 ug/l	No	Yes	3.500	3.500	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	3.117 ug/l	Yes	Yes			No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	62.344 ug/l	No	No			No	75% of relevant TV
Arsenic (Total)	15.500 ug/l	No	Yes	15.500	15.500	No	75% of relevant TV
Copper (Total)	12.469 ug/l	Yes	No	4.400	4.400	No	75% of relevant TV
Zinc (Total)	122.000 ug/l	Yes	No	122.000	122.000	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	Yes	Yes	10.700	10.700	No	75% of relevant TV
Xylene -p+m	37.407 ug/l	No	Yes			No	75% of relevant TV
Anthracene	0.125 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Naphthalene	2.993 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	8.978 ug/l	Yes	Yes			No	75% of relevant TV
Cadmium (Total)	0.249 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Sodium	112.500 mg/l	Yes	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: GB40601G601000 Vale of White Horse Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations:

Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (Low)	Poor	Disproportionately expensive (GC4a)
General Chemical Test	Poor (Low)	Poor	Disproportionately expensive (GC4a)
Impact on Wetlands	Good (High)	Good	,
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Point Sources	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	Yes	No	0.070	0.069	No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.122 ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			No	75% of relevant TV
Simazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	Yes	Yes			No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	3.051 ug/l	Yes	Yes			No	75% of relevant TV
Mecoprop	0.075 ug/l	No	Yes			No	75% of relevant TV
Diuron	0.075 ug/l	No	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Permethrin-cis+trans	0.012 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.012 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No	7.500	7.500	Yes	75% of relevant TV
Dalapon	0.075 ug/l	No	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes			No	75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	No	Yes			No	75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes			No	75% of relevant TV
Bromate	0.008 mg/l	No	No			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40601G501800</u> West Kent Darent and Cray Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (High)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (Low)	Good	
Water Balance	Poor (High)	Poor	Disproportionately expensive (GQ5a)

Chemical Status

Current Status (and confidence in this assessment)

Poor (High)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (High)	Poor	Disproportionately expensive (GC4a)
General Chemical Test	Good (Low)	Good	,
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test
Abstraction and other artificial flow pressures	Saline Intrusion	General Chemical Test, Saline Intrusion Test, DrWPA Test

Substance	TV	Units	Exceedance	Hazardous	Min NRI	Max	Unward	Starting point for
Substance	1 4	Units	LACCECIANCE	Tiazaidous	WIIII NBL	NBL	trend	reversing the trend
1,1,2- Trichloroethane	7.500	ug/l	No	Yes			No	75% of relevant TV
Permethrin-cis+trans	0.013	ug/l	No	Yes			No	75% of relevant TV
Copper (Total)	14.500	ug/l	Yes	No	14.500	14.500	No	75% of relevant TV
Zinc (Total)	171.000	ug/l	Yes	No	171.000	171.000	No	75% of relevant TV
Nickel (Total)	15.000	ug/l	No	Yes	10.000	10.000	No	75% of relevant TV
Xylene -p+m	33.965	ug/l	No	Yes			No	75% of relevant TV
Anthracene	0.126	ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500	ug/l	No	No			No	75% of relevant TV
Naphthalene	2.717	ug/l	No	Yes			No	75% of relevant TV
Chromium (Dissolved)	5.661	ug/l	No	Yes	1.200	1.200	No	75% of relevant TV
Nickel (Dissolved)	15.000	ug/l	No	Yes	10.000	10.000	No	75% of relevant TV
Mecoprop	0.075	ug/l	No	Yes			No	75% of relevant TV
Benzene	0.750	ug/l	No	Yes			No	75% of relevant TV
Toluene	56.608	ug/l	No	No			No	75% of relevant TV
Diuron	0.075	ug/l	Yes	Yes			No	75% of relevant TV
Bentazone	0.075	ug/l	No	Yes			No	75% of relevant TV
Arsenic (Total)	7.500	ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
Copper (Dissolved)	14.500	ug/l	No	No	14.500	14.500	No	75% of relevant TV
Ammonia	0.300	mg/l	No	No	0.300	0.300	No	75% of relevant TV
Chlorfenvinphos	0.075	ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.113	ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250	ug/l	Yes	Yes			No	75% of relevant TV
Pentachlorophenol	0.453	ug/l	No	Yes			No	75% of relevant TV
Simazine	0.075	ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075	ug/l	No	Yes			No	75% of relevant TV
Isoproturon	0.075	ug/l	Yes	Yes			No	75% of relevant TV
Chromium (Total)	5.661	ug/l	No	Yes	1.200	1.200	No	75% of relevant TV
1,1,1- Trichloroethane	7.500	ug/l	No	Yes			No	75% of relevant TV
PCE	7.500	ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500	ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	2.830	ug/l	Yes	Yes			No	75% of relevant TV
Zinc (Dissolved)	171.000	ug/l	No	No	171.000	171.000	No	75% of relevant TV
Lead (Total)	8.152	ug/l	No	Yes			No	75% of relevant TV
Lead (Dissolved)	8.152	ug/l	No	Yes			No	75% of relevant TV
Cypermethrin	0.075	ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.226	ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.226	ug/l	No	Yes			No	75% of relevant TV

Diazinon	0.011 ug/l	No	Yes	No 75% of relevant TV
Nitrate	42.000 mg/l	Yes	No	Yes 75% of relevant TV
Propazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes	No 75% of relevant TV
Fluoride	1.125 mg/l	No	No	No 75% of relevant TV
Mercury	0.750 ug/l	No	Yes	No 75% of relevant TV
MCPA	0.075 ug/l	No	Yes	No 75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes	No 75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes	No 75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes	No 75% of relevant TV
Boron	750.000 ug/l	No	No	No 75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes	No 75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes	No 75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes	No 75% of relevant TV
Sodium	112.500 mg/l	Yes	No	No 75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Electrical conductivity	1875.000 uS/cm	No	No	No 75% of relevant TV
Aluminium	150.000 ug/l	No	Yes	No 75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes	No 75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes	No 75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes	No 75% of relevant TV
Dalapon	0.075 ug/l	No	Yes	No 75% of relevant TV

GB40602G502300 Waterbody ID and Name: Kent Weald Western - Medway

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2015, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations:

Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Good (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Good (Low)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (High)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (High)	Poor	Technically infeasible (GC1a)
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	Yes	No	0.000	0	Yes	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.205 ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			No	75% of relevant TV
Simazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	3.991 ug/l	Yes	Yes			No	75% of relevant TV
Mecoprop	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Diuron	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Nickel (Total)	15.000 ug/l	Yes	Yes	0.000	0	No	75% of relevant TV
1,1,2-	7.500 ug/l	No	Yes			No	75% of relevant TV
Trichloroethane Cypermethrin	0.075 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.016 ug/l	No	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Boron	750.000 ug/l	Yes	No			No	75% of relevant TV
Clopyralid	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Sodium	112.500 mg/l	Yes	No			Yes	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
Dalapon	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	Yes	Yes			No	75% of relevant TV
МСРА	0.075 ug/l	Yes	Yes			No	75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40601G600100</u> Alton Upper Greensand

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Protected Area Designation:

Disproportionately expensive, Technically infeasible

Drinking Water Protected Area, Nitrates Directive

t good status by 2013.

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015		
Impact on Wetlands	Good (Low)	Good			
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)		
Saline Intrusion	Good (Low)	Good	,		
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)		

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Technically infeasible (GC1a)
Saline Intrusion	Good (Low)	Good	

Pressures	Risk Category	Element against which assessed
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Nutrients	Phosphate	General Chemical Test, GWDTE Test, GWSW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test

Substance	TV	Units	Exceedance	Hazardous	Min NBL	Max NBL		Starting point for reversing the trend
Ammonia	0.300) mg/l	No	No	0.000	0.069	No	75% of relevant TV
Phosphate	42.346	3 ug/l	Yes	No	6.500	6.500	No	75% of relevant TV
Nitrate	42.000) mg/l	No	No	7.500	7.500	No	75% of relevant TV

Waterbody ID and Name: <u>GB40601G501300</u> Basingstoke Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Natural conditions

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations:

Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Poor (High)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (High)	Poor	Natural conditions (GC6a)
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Nutrients, Hazardous Substances and other pollutants	GWDTE (chemical)	GWDTE Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	Yes	No	0.070	0.300	No	75% of relevant TV
Phosphate	42.664 ug/l	No	No	6.500	129.000	No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.127 ug/l	No	Yes			No	75% of relevant TV
Simazine	0.075 ug/l	Yes	Yes			Yes	75% of relevant TV
Atrazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
Mecoprop	0.075 ug/l	No	Yes			No	75% of relevant TV
Diuron	0.075 ug/l	No	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	No	Yes			No	75% of relevant TV
Permethrin-cis+trans	0.013 ug/l	No	Yes			No	75% of relevant TV
Cypermethrin	0.075 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.011 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	No	No	7.500	7.500	Yes	75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Dalapon	0.075 ug/l	No	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes			No	75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	No	Yes			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G602400</u> Copthorne Tunbridge Wells Sands

Current Overall Status Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Quantitative Status by 2015, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Good (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (High)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence

Good (Low)

in this assessment)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures and Risks

Pressures Risk Category Element against which assessed

DrWPA Test, GW-SW Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	No	No	0.000	0	No	75% of relevant TV
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G601800</u> Effingham Tertiaries

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (High)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Dalapon	0.075 ug/l	No	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	No	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	No	Yes			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G600700</u> Headington Corallian

Current Overall Status Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Quantitative Status by 2015, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Good (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (High)	Good	
Saline Intrusion	Good (Low)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence

in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures and Risks

Pressures Risk Category Element against which assessed

Nutrients, Hazardous Substances and other

pollutants

GWDTE (chemical)

GWDTE Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	Yes	No	0.300	0.300	No	75% of relevant TV
Phosphate	184.332 ug/l	Yes	No	84.500	84.500	No	75% of relevant TV
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV

Waterbody ID and Name: GB40601G600900 Berkshire Downs Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations:

Yes

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Poor (High)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (High)	Poor	Disproportionately expensive (GC4a)
General Chemical Test	Good (Low)	Good	,
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Nutrients	Phosphate	General Chemical Test, GWDTE Test, GWSW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV Units	s Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Toluene	52.247 ug/l	No	No			No	75% of relevant TV
Arsenic (Total)	7.500 ug/l	No	Yes	3.400	3.500	No	75% of relevant TV
Copper (Dissolved)	10.449 ug/l	Yes	No	0.000	5.980	No	75% of relevant TV
Copper (Total)	10.323 ug/l	Yes	No	0.000	5.980	No	75% of relevant TV
Zinc (Total)	77.422 ug/l	Yes	No	0.000	30.000	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	No	Yes	0.000	7.500	No	75% of relevant TV
Ammonia	0.300 mg/l	Yes	No	0.000	0.069	Yes	75% of relevant TV
Phosphate	123.875 ug/l	Yes	No	6.500	6.500	No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	Yes	Yes			No	75% of relevant TV
Pentachlorophenol	0.420 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	5.161 ug/l	No	Yes	0.000	1.000	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 ug/l	Yes	Yes			No	75% of relevant TV
Chloroform	2.612 ug/l	Yes	Yes			No	75% of relevant TV
Xylene -p+m	31.348 ug/l	No	Yes			No	75% of relevant TV
Anthracene	0.105 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	Yes	No			No	75% of relevant TV
Naphthalene	2.518 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Zinc (Dissolved)	78.370 ug/l	Yes	No	0.000	30.000	No	75% of relevant TV
Chromium (Dissolved)	5.225 ug/l	Yes	Yes	0.000	1.000	No	75% of relevant TV
Nickel (Dissolved)	15.000 ug/l	No	Yes	0.000	7.500	No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.209 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.206 ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	7.433 ug/l	No	Yes			No	75% of relevant TV
Lead (Dissolved)	7.524 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No	7.500	7.500	Yes	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes	2.800	2.800	No	75% of relevant TV
Boron	750.000 ug/l	No	No	86.900	86.900	No	75% of relevant TV
Sodium	112.500 mg/l	Yes	No	21.900	21.900	No	75% of relevant TV
Fluoride	1.125 mg/l	No	No	0.330	0.326	No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV
Chloride	41.000 mg/l	No	No	41.000	41.000	No	75% of relevant TV

Waterbody ID and Name: GB40602G601300 Farnborough Bagshot Beds

Current Overall Status Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Quantitative Status by 2015, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Good (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (High)	Good	
Saline Intrusion	Good (Low)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence

in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures and Risks

Pressures Risk Category Element against which assessed

DrWPA Test, GW-SW Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max	Upward	Starting point for
					NBL	trend	reversing the trend
Zinc (Dissolved)	337.500 ug/l	Yes	No	337.500	337.500	No	75% of relevant TV
Chromium (Dissolved)	7.783 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
Nickel (Dissolved)	20.500 ug/l	No	Yes	20.500	20.500	No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	77.829 ug/l	No	No			No	75% of relevant TV
Copper (Dissolved)	15.566 ug/l	No	No	5.800	5.800	No	75% of relevant TV
Copper (Total)	15.566 ug/l	No	No	5.800	5.800	No	75% of relevant TV
Zinc (Total)	337.500 ug/l	Yes	No	337.500	337.500	No	75% of relevant TV
Nickel (Total)	20.500 ug/l	Yes	Yes	20.500	20.500	No	75% of relevant TV
Xylene -p+m	37.500 ug/l	No	Yes			No	75% of relevant TV
Anthracene	0.156 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Naphthalene	3.736 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Ammonia	0.300 mg/l	No	No	0.300	0.300	No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	No	Yes			No	75% of relevant TV
Pentachlorophenol	0.623 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	7.783 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	No	Yes			No	75% of relevant TV
TCE	7.500 ug/l	No	Yes			No	75% of relevant TV
Chloroform	3.891 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.311 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.311 ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	11.207 ug/l	No	Yes			No	75% of relevant TV
Lead (Dissolved)	11.207 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G501900</u> West Kent Tertiaries

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (Low)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test

					,,		
Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Dalapon	0.075 ug/l	No	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	No	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	No	Yes			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
1,2-dichloroethane	2.250 ug/l	No	Yes			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40601G604100</u> Chiltern Chalk Scarp

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Phosphate	General Chemical Test, GWDTE Test, GWSW Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Mecoprop	0.075 ug/l	No	Yes		NDL	No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	54.051 ug/l	No	No			No	75% of relevant TV
Diuron	0.075 ug/l	No	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	No	Yes			No	75% of relevant TV
Copper (Dissolved)	10.810 ug/l	Yes	No	0.000	20.400	No	75% of relevant TV
Nickel (Dissolved)	15.000 ug/l	No	Yes	0.000	12.350	No	75% of relevant TV
Ammonia	0.300 mg/l	Yes	No	0.000	0.750	No	75% of relevant TV
Phosphate	129.721 ug/l	Yes	No	6.500	192.000	No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.158 ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	No	Yes			No	75% of relevant TV
Pentachlorophenol	0.634 ug/l	No	Yes			No	75% of relevant TV
Simazine	0.034 ug/l	No	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
Chloroform	2.703 ug/l	No	Yes			No	75% of relevant TV
Zinc (Dissolved)	81.076 ug/l	Yes	No	0.000	74.500	No	75% of relevant TV
Chromium	5.405 ug/l	Yes	Yes	0.000	1.900	No	75% of relevant TV
(Dissolved)	-						
Chromium (Total)	5.405 ug/l	No	Yes	0.000	1.900	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	No	Yes			No	75% of relevant TV
TCE	7.500 ug/l	No	Yes			No	75% of relevant TV
Copper (Total)	10.810 ug/l	No	No	0.000	20.400	Yes	75% of relevant TV
Zinc (Total)	81.076 ug/l	No	No	0.000	74.500	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	No	Yes	0.000	12.350	No	75% of relevant TV
Xylene -p+m	37.500 ug/l	No	Yes			No	75% of relevant TV
Anthracene	0.158 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Naphthalene	3.804 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Permethrin-cis+trans	0.011 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.011 ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	7.783 ug/l	No	Yes			Yes	75% of relevant TV
Lead (Dissolved)	7.783 ug/l	No	Yes			No	75% of relevant TV
Cypermethrin	0.075 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.216 ug/l	No	Yes			No	75% of relevant TV
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Cadmium (Total)	0.216 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No	7.500	7.500	No	75% of relevant TV
Chloride	41.000 mg/l	No	No	41.000	41.000	No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Dalapon	0.075 ug/l	No	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes	2.800	2.800	No	75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No	86.900	86.900	No	75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	No	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	No	Yes			No	75% of relevant TV
Sodium	112.500 mg/l	No	No	21.900	21.900	No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No	0.330	0.326	No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G600200</u> Banbury Jurassic

Current Overall Status Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Quantitative Status by 2015, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Good (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence

Good (Low)

in this assessment)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures and Risks

Pressures Risk Category Element against which assessed

Waterbody ID and Name: <u>GB40602G500200</u> North Kent Tertiaries

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (Low)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test
Abstraction and other artificial flow pressures	Saline Intrusion	General Chemical Test, Saline Intrusion Test, DrWPA Test

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Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Carbon tetrachloride	2.250 ug/l	No	Yes			No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	No	Yes			No	75% of relevant TV
TCE	7.500 ug/l	No	Yes			No	75% of relevant TV
Chloroform	3.174 ug/l	No	Yes			No	75% of relevant TV
Benzene	0.750 ug/l	No	Yes			No	75% of relevant TV
Toluene	63.469 ug/l	No	No			No	75% of relevant TV
Chromium (Total)	6.347 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
Ammonia	0.300 mg/l	No	No	0.300	0.300	No	75% of relevant TV
Copper (Total)	12.694 ug/l	No	No	5.800	5.800	No	75% of relevant TV
Zinc (Total)	337.500 ug/l	No	No	337.500	337.500	No	75% of relevant TV
Nickel (Total)	20.500 ug/l	No	Yes	20.500	20.500	No	75% of relevant TV
Xylene -p+m	37.500 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Naphthalene	3.325 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	9.140 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.254 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Electrical conductivity	1875.000 uS/cm	No	No			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40601G601900</u> Godalming Lower Greensand

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations:

Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (High)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Poor (High)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (High)	Poor	Disproportionately expensive (GC4a)
General Chemical Test	Good (Low)	Good	,
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures and Risks

pressures

Pressures	Risk Category	Element against which assessed
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Nutrients	Phosphate	General Chemical Test, GWDTE Test, GW-SW Test
Nutrients	Trends in Nitrate	GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow	DrWPA	DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Arsenic (Total)	15.500 ug/l	No	Yes	15.500	15.500	No	75% of relevant TV
Ammonia	0.300 mg/l	Yes	No	0.300	0.300	No	75% of relevant TV
Phosphate	297.000 ug/l	Yes	No	297.000	297.000	No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			Yes	75% of relevant TV

GB40602G602700 **Twyford Tertiaries** Waterbody ID and Name:

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in this assessment)

Poor (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (Low)	Good	
Water Balance	Poor (Low)	Poor	Disproportionately expensive (GQ1c)

Chemical Status

Current Status (and confidence in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max	-	Starting point for
Mecoprop	0.075 ug/l	No	Yes		NBL	trend No	reversing the trend 75% of relevant TV
Benzene	0.075 ug/l	No	Yes			No	75% of relevant TV
Toluene	76.219 ug/l	No	No			No	75% of relevant TV
Diuron	0.075 ug/l	No	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	No	Yes			No	75% of relevant TV
Copper (Dissolved)	· ·			4 000	4.000		75% of relevant TV
,	15.244 ug/l	No	No	4.000	4.000	No	
Copper (Total)	15.244 ug/l	Yes	No	4.000	4.000	No	75% of relevant TV
Zinc (Total)	114.329 ug/l	No	No	7.800	7.800	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	No	Yes	10.000	10.000	No	75% of relevant TV
Xylene -p+m	37.500 ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500 ug/l	No	No			No	75% of relevant TV
Naphthalene	3.659 ug/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
Ammonia	0.300 mg/l	No	No	0.300	0.300	No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Fluoranthene	0.152 ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250 ug/l	No	Yes			No	75% of relevant TV
Pentachlorophenol	0.610 ug/l	No	Yes			No	75% of relevant TV
Simazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	7.622 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 ug/l	No	Yes			No	75% of relevant TV
PCE	7.500 ug/l	No	Yes			No	75% of relevant TV
TCE	7.500 ug/l	No	Yes			No	75% of relevant TV
Chloroform	3.811 ug/l	No	Yes			No	75% of relevant TV
Zinc (Dissolved)	114.329 ug/l	No	No	7.800	7.800	No	75% of relevant TV
Chromium (Dissolved)	7.622 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
Nickel (Dissolved)	15.000 ug/l	No	Yes	10.000	10.000	No	75% of relevant TV
Lead (Total)	10.976 ug/l	No	Yes			No	75% of relevant TV
Lead (Dissolved)	10.976 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.305 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.305 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.015 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV

Glyphosate	0.075 ug/l	No	Yes	No 75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes	No 75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes	No 75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes	No 75% of relevant TV
Boron	750.000 ug/l	No	No	No 75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes	No 75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes	No 75% of relevant TV
Trifluralin	0.075 ug/l	No	Yes	No 75% of relevant TV
Trietazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Terbutryn	0.075 ug/l	No	Yes	No 75% of relevant TV
Sodium	112.500 mg/l	No	No	No 75% of relevant TV
Propazine	0.075 ug/l	No	Yes	No 75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes	No 75% of relevant TV
Fluoride	1.125 mg/l	No	No	No 75% of relevant TV
Mercury	0.750 ug/l	No	Yes	No 75% of relevant TV
MCPA	0.075 ug/l	No	Yes	No 75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes	No 75% of relevant TV
Dalapon	0.075 ug/l	No	Yes	No 75% of relevant TV

GB40602G600800 Waterbody ID and Name: Bicester-Otmoor Cornbrash

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2015, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Good (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (High)	Good	
Saline Intrusion	Good (Low)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Technically infeasible (GC1a)
Saline Intrusion	Good (Low)	Good	

Pressures and Risks

pollutants

Pressures Risk Category Element against which assessed General Chemical Test, GWDTE Test, GW-**Nutrients** Phosphate SW Test Nutrients, Hazardous Substances and other GWDTE (chemical) **GWDTE Test**

Substance	TV	Units	Exceedance	Hazardous	Min NBL	Max NBL	•	Starting point for reversing the trend
Ammonia	0.300	mg/l	No	No	0.300	0.300	No	75% of relevant TV
Phosphate	165.746	ug/l	Yes	No	50.000	50.000	No	75% of relevant TV
Nitrate	42.000	mg/l	No	No			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G600300</u> Chipping Norton Jurassic

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2015, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Good (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (High)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (High)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Poor (High)	Poor	Disproportionately expensive (GC4a)
Impact on Wetlands	Good (Low)	Good	,
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Nutrients	Phosphate	General Chemical Test, GWDTE Test, GWSW Test
Hazardous Substances and other pollutants	Pesticides	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	No	No	0.000	0.300	No	75% of relevant TV
Phosphate	127.660 ug/l	Yes	No	50.000	50.000	No	75% of relevant TV
Chlorfenvinphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Simazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Atrazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Isoproturon	0.075 ug/l	No	Yes			No	75% of relevant TV
Mecoprop	0.075 ug/l	No	Yes			No	75% of relevant TV
Diuron	0.075 ug/l	No	Yes			No	75% of relevant TV
Bentazone	0.075 ug/l	No	Yes			No	75% of relevant TV
Permethrin-cis+trans	0.011 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.011 ug/l	No	Yes			No	75% of relevant TV
Diazinon	0.011 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			No	75% of relevant TV
Dalapon	0.075 ug/l	No	Yes			No	75% of relevant TV
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes			No	75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	Yes	Yes			No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G601500</u> Aldermaston Bagshot Beds

Current Overall Status Poor

Status Objective (Overall): Good by 2021

Status Objective(s): Good Quantitative Status by 2015, Good Chemical Status by 2021

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Good (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Good (High)	Good	
Saline Intrusion	Good (Low)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GC4c)
Saline Intrusion	Good (Low)	Good	,

Pressures and Risks

Proceuras

riessuies	Nisk Category	Lienieni againsi wilich assessed
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients, Hazardous Substances and other pollutants	GWDTE (chemical)	GWDTE Test

Risk Category

Flament against which assessed

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Ammonia	0.300 mg/l	No	No	0.300	0.300	No	75% of relevant TV
Phosphate	162.162 ug/l	No	No	0.000	0	No	75% of relevant TV
Chromium (Total)	6.757 ug/l	No	Yes	1.000	1.000	No	75% of relevant TV
Copper (Total)	13.513 ug/l	No	No	4.000	4.000	No	75% of relevant TV
Zinc (Total)	101.351 ug/l	No	No	7.800	7.800	No	75% of relevant TV
Nickel (Total)	15.000 ug/l	No	Yes	10.000	10.000	No	75% of relevant TV
Lead (Total)	9.730 ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.270 ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000 mg/l	No	No			No	75% of relevant TV
Aluminium	150.000 ug/l	No	Yes			No	75% of relevant TV
Boron	750.000 ug/l	No	No			No	75% of relevant TV
Sodium	112.500 mg/l	No	No			No	75% of relevant TV
Fluoride	1.125 mg/l	No	No			No	75% of relevant TV
Mercury	0.750 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G401200</u> North Mymms Tertiaries

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2021

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

Poor (Low)

this assessment)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015		
Impact on Wetlands	Good (Low)	Good			
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)		
Saline Intrusion	Good (High)	Good			
Water Balance	Good (Low)	Good			

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (Low)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Technically infeasible (GC1a)
Saline Intrusion	Good (High)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Point Sources	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test

Substance	TV Units	Exceedance	Hazardous	Min NBL	Max NBL	-	Starting point for reversing the trend
Ammonia	0.300 mg/l	No	No	0.300	0.300	No	75% of relevant TV
Nitrate	42.000 mg/l	Yes	No			No	75% of relevant TV
Bromate	0.008 mg/l	No	No			No	75% of relevant TV

Waterbody ID and Name: <u>GB40602G604200</u> Byfield Jurassic

Current Overall Status Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Quantitative Status by 2015, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Good (High)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (High)	Good	
Saline Intrusion	Good (High)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence

in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (High)	Good	

Pressures and Risks

Pressures Risk Category Element against which assessed

Hazardous Substances and other pollutants Pesticides General Chemical Test, GWDTE Test,

DrWPA Test, GW-SW Test

Substance	TV Units	Exceedance H	lazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Cyanazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Glyphosate	0.075 ug/l	No	Yes			No	75% of relevant TV
Chlortoluron	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbetamide	0.075 ug/l	No	Yes			No	75% of relevant TV
Carbendazim	0.075 ug/l	No	Yes			No	75% of relevant TV
Clopyralid	0.075 ug/l	No	Yes			No	75% of relevant TV
Metazachlor	0.075 ug/l	No	Yes			No	75% of relevant TV
Trifluralin	0.075 ug/l	No	Yes			No	75% of relevant TV
Trietazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Terbutryn	0.075 ug/l	No	Yes			No	75% of relevant TV
Propazine	0.075 ug/l	No	Yes			No	75% of relevant TV
Dichlorprop	75.000 ug/l	No	Yes			No	75% of relevant TV
MCPA	0.075 ug/l	No	Yes			No	75% of relevant TV
Dalapon	0.075 ug/l	No	Yes			No	75% of relevant TV
Propetamphos	0.075 ug/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: <u>GB40601G602000</u> Reigate Lower Greensand

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Status Objective(s): Good Quantitative Status by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Natural conditions, Technically infeasible

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in this assessment)

Poor (High)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Poor (High)	Poor	Technically infeasible (GQ2b)
Impact On Surface Waters	Poor (Low)	Poor	Disproportionately expensive (GQ1b)
Saline Intrusion	Good (Low)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Poor (Low)	Poor	Natural conditions (GC6a)
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Poor (Low)	Poor	Technically infeasible (GC1a)
Saline Intrusion	Good (Low)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	s Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Nutrients	Phosphate	General Chemical Test, GWDTE Test, GWSW Test
Hazardous Substances and other pollutants Nutrients, Abstraction and other artificial floo pressures	•	DrWPA Test

Substance	TV ι	Jnits	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
Nickel (Dissolved)	15.000 u	ıg/l	No	Yes	10.700	10.700	No	75% of relevant TV
Benzene	0.750 u	ıg/l	No	Yes			No	75% of relevant TV
Toluene	63.200 u	ıg/l	No	No			No	75% of relevant TV
Arsenic (Total)	15.500 u	ıg/l	No	Yes	15.500	15.500	No	75% of relevant TV
Copper (Dissolved)	13.678 u	ıg/l	No	No	4.400	4.400	No	75% of relevant TV
Chromium (Total)	6.320 u	ıg/l	Yes	Yes	3.500	3.500	No	75% of relevant TV
1,1,1- Trichloroethane	7.500 u	ıg/l	No	Yes			No	75% of relevant TV
PCE	7.500 u	ıg/l	Yes	Yes			No	75% of relevant TV
TCE	7.500 u	ıg/l	Yes	Yes			No	75% of relevant TV
Chloroform	3.160 u	ıg/l	Yes	Yes			No	75% of relevant TV
Zinc (Dissolved)	122.000 u	ıg/l	No	No	122.000	122.000	No	75% of relevant TV
Chromium (Dissolved)	6.839 u	ıg/l	Yes	Yes	3.500	3.500	No	75% of relevant TV
Copper (Total)	12.640 u	ıg/l	Yes	No	4.400	4.400	No	75% of relevant TV
Zinc (Total)	122.000 u	ıg/l	Yes	No	122.000	122.000	No	75% of relevant TV
Nickel (Total)	15.000 u	ıg/l	Yes	Yes	10.700	10.700	No	75% of relevant TV
Xylene -p+m	37.500 u	ıg/l	No	Yes			No	75% of relevant TV
Anthracene	0.126 u	ıg/l	No	Yes			No	75% of relevant TV
Phenol	7.500 u	ıg/l	No	No			No	75% of relevant TV
Naphthalene	3.034 u	ıg/l	No	Yes			No	75% of relevant TV
1,1,2- Trichloroethane	7.500 u	ıg/l	No	Yes			No	75% of relevant TV
Ammonia	0.300 n	ng/l	Yes	No	0.300	0.300	No	75% of relevant TV
Phosphate	297.000 u	ıg/l	Yes	No	297.000	297.000	No	75% of relevant TV
Carbon tetrachloride	2.250 u	ıg/l	Yes	Yes			No	75% of relevant TV
Pentachlorophenol	0.506 u	ıg/l	No	Yes			No	75% of relevant TV
Atrazine	0.075 u	ıg/l	Yes	Yes			No	75% of relevant TV
Lead (Total)	9.101 u	ıg/l	Yes	Yes			No	75% of relevant TV
Lead (Dissolved)	9.848 u	ıg/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.274 u	ıg/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.253 u	ıg/l	Yes	Yes			No	75% of relevant TV
Nitrate	42.000 n	mg/l	Yes	No			No	75% of relevant TV
Aluminium	150.000 u	ıg/l	No	Yes			No	75% of relevant TV
Boron	750.000 u	ıg/l	Yes	No			No	75% of relevant TV
Sodium	112.500 n	ng/l	Yes	No			No	75% of relevant TV
Fluoride	1.125 n	ng/l	No	No			No	75% of relevant TV
Mercury	0.750 u	ıg/l	No	Yes			No	75% of relevant TV

Waterbody ID and Name: GB40601G401100 South Essex Thurrock Chalk

Current Overall Status Poor

Status Objective (Overall): Good by 2027

Good Quantitative Status by 2015, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Drinking Water Protected Area

Groundwater body has an upward

trend in pollutant concentrations:

Yes

Quantitative Status

Current Status (and confidence in

this assessment)

Good (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence in this assessment)

Poor (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Poor (Low)	Poor	Technically infeasible (GC1a)
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

Pressures	Risk Category	Element against which assessed
Hazardous Substances and other pollutants	Point Sources	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Urbanisation	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Hazardous Substances and other pollutants	List I Substances	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants	Chlorinated Solvents	General Chemical Test, GWDTE Test, DrWPA Test, GW-SW Test
Hazardous Substances and other pollutants, Nutrients, Abstraction and other artificial flow pressures	DrWPA	DrWPA Test
Abstraction and other artificial flow pressures	Saline Intrusion	General Chemical Test, Saline Intrusion Test, DrWPA Test

Substance	TV	Units	Exceedance	Hazardous	Min NBL	Max NBL	Upward trend	Starting point for reversing the trend
1,1,2- Trichloroethane	7.500	ug/l	No	Yes			No	75% of relevant TV
Ammonia	0.300	mg/l	Yes	No	0.300	0.750	Yes	75% of relevant TV
Fluoranthene	0.166	ug/l	No	Yes			No	75% of relevant TV
Carbon tetrachloride	2.250	ug/l	No	Yes			No	75% of relevant TV
Pentachlorophenol	0.663	ug/l	No	Yes			No	75% of relevant TV
Chromium (Total)	8.285	ug/l	No	Yes	1.000	1.900	No	75% of relevant TV
1,1,1- Trichloroethane	7.500	ug/l	No	Yes			No	75% of relevant TV
PCE	7.500	ug/l	No	Yes			No	75% of relevant TV
TCE	7.500	ug/l	No	Yes			No	75% of relevant TV
Chloroform	4.143	ug/l	No	Yes			No	75% of relevant TV
Zinc (Dissolved)	124.277	ug/l	No	No	74.500	337.500	No	75% of relevant TV
Chromium (Dissolved)	8.285	ug/l	No	Yes	1.000	1.900	No	75% of relevant TV
Nickel (Dissolved)	15.000	ug/l	No	Yes	10.000	20.500	No	75% of relevant TV
Benzene	0.750	ug/l	No	Yes			No	75% of relevant TV
Toluene	82.851	ug/l	No	No			No	75% of relevant TV
Arsenic (Total)	7.500	ug/l	No	Yes	1.000	4.000	No	75% of relevant TV
Copper (Dissolved)	16.570	ug/l	No	No	5.800	20.400	No	75% of relevant TV
Copper (Total)	16.570	ug/l	No	No	5.800	20.400	No	75% of relevant TV
Zinc (Total)	124.277	ug/l	No	No	74.500	337.500	No	75% of relevant TV
Nickel (Total)	15.000	ug/l	No	Yes	10.000	20.500	No	75% of relevant TV
Xylene -p+m	37.500	ug/l	No	Yes			No	75% of relevant TV
Anthracene	0.166	ug/l	No	Yes			No	75% of relevant TV
Phenol	7.500	ug/l	No	No			No	75% of relevant TV
Naphthalene	3.977	ug/l	No	Yes			No	75% of relevant TV
Lead (Total)	11.931	ug/l	No	Yes			No	75% of relevant TV
Lead (Dissolved)	11.931	ug/l	No	Yes			No	75% of relevant TV
Cadmium (Dissolved)	0.331	ug/l	No	Yes			No	75% of relevant TV
Cadmium (Total)	0.331	ug/l	No	Yes			No	75% of relevant TV
Nitrate	42.000	mg/l	No	No			No	75% of relevant TV
Electrical conductivity	1875.000	uS/cm	No	No			No	75% of relevant TV
Aluminium	150.000	ug/l	No	Yes			No	75% of relevant TV
Boron	750.000	ug/l	No	No			No	75% of relevant TV
Sodium	112.500	mg/l	No	No			No	75% of relevant TV
Fluoride	1.125	mg/l	No	No			No	75% of relevant TV
Mercury	0.750	ug/l	No	Yes			No	75% of relevant TV
1,2-dichloroethane	2.250	ug/l	No	Yes			No	75% of relevant TV
Bromate	0.008	mg/l	No	No			No	75% of relevant TV

Waterbody ID and Name: <u>GB40601G603100</u> Tackley Jurassic

Current Overall Status Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Quantitative Status by 2015, Good Chemical Status by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Drinking Water Protected Area, Nitrates Directive

Groundwater body has an upward

trend in pollutant concentrations: No

Quantitative Status

Current Status (and confidence in

this assessment)

Good (Low)

Quantitative elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (High)	Good	
Saline Intrusion	Good (Low)	Good	
Water Balance	Good (High)	Good	

Chemical Status

Current Status (and confidence

in this assessment)

Good (Low)

Chemical elements

Element	Current status (and confidence)	Predicted Status by 2015	Justification for not achieving good status by 2015
Drinking Water Protected Area	Good (Low)	Good	
General Chemical Test	Good (Low)	Good	
Impact on Wetlands	Good (High)	Good	
Impact On Surface Waters	Good (Low)	Good	
Saline Intrusion	Good (Low)	Good	

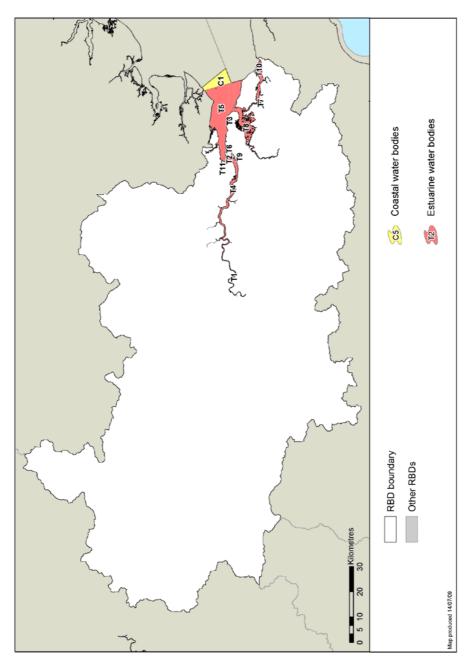
Pressures	Risk Category	Element against which assessed
Nutrients	Nitrate	General Chemical Test, GWDTE Test, DrWPA Test
Nutrients	Phosphate	General Chemical Test, GWDTE Test, GW-SW Test

B.23 Estuaries and Coastal Waters

Estuarine and Coastal water bodies in the Thames river basin district

There are 11 estuarine water bodies and 1 coastal water body in the Thames river basin district.

Figure B.23.1 Estuarine and coastal water bodies in the Thames river basin district



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Water body tables for estuaries and coastal waters in the Thames river basin district

This section contains detailed information on the current status and objectives for all estuarine and coastal water bodies in the river basin district. The tables are arranged by map code number.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Waterbody Category and Map Code.: Coastal - C1 Surveillance site: No

Waterbody ID and Name: GB640603690000 Thames Coastal North

National Grid Reference: TR 02100 81123

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Shellfish Water Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, ShellFisheries

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Biological elements

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 2015 good status by 2015

good)

Phytoplankton Moderate (Uncertain) Moderate Disproportionately expensive

(B1a)

Supporting elements

Element Current status (and Predicted Status by Justification for not achieving certainty of less than 2015 good status by 2015

good)

Dissolved Oxygen High High

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Disproportionately expensive

Assessment (M2b), Technically infeasible (M3f)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Indirect / offsite mitigation (offsetting measures)	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Managed realignment of flood defence	Not In Place
Bank rehabilitation / reprofiling	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Transitional - T1 Surveillance site: Yes

Waterbody ID and Name: GB530603911403 THAMES UPPER

National Grid Reference: TQ 21488 76502

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Coastal Protection, Flood Protection

Downstream Waterbody ID: GB530603911402

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting elements

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Dissolved Oxygen Good Good Un-ionised ammonia High High

Supporting conditions

Element Current status (and

certainty of less than

good)

(Uncertain)

Predicted Status by

2015

Good

Justification for not achieving

good status by 2015

Tidal Regime - Freshwater

Flow

Does not Support Good

Does not Support

Disproportionately expensive

(HT1a)

Ecological Potential Assessment

Element Current status **Predicted Status by**

2015

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Moderate Moderate Technically infeasible (M3f)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Operational and structural changes to locks, sluices, weirs, beach control, etc

Not In Place

Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and

Not In Place

riparian zone Managed realignment of flood defence

Not In Place

Remove obsolete structure

Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Good

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Cadmium And Its Compounds	High	High	
Mercury And Its Compounds	High	High	

Transitional - T2 Surveillance site: Yes Waterbody Category and Map Code.:

Waterbody ID and Name: GB530603911402 THAMES MIDDLE

National Grid Reference: TQ 32950 80508

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Freshwater Fish Directive, Natura 2000 (Habitats and/or Birds Directive),

Nitrates Directive, Urban Waste Water Treatment Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Coastal Protection, Flood Protection, Navigation

Downstream Waterbody ID: GB530603911401

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Justification for not achieving Element Current status (and **Predicted Status by**

certainty of less than

good)

good status by 2015 2015

Moderate Invertebrates Moderate (Uncertain)

High High Macroalgae

Supporting elements

Dissolved Inorganic

Dissolved Oxygen

Current status (and Predicted Status by Element Justification for not achieving certainty of less than 2015 good status by 2015

good)

High

Moderate (Uncertain)

Moderate

Disproportionately expensive

Not Required (MS)

(N1o)

Moderate (Uncertain) Moderate Disproportionately expensive

(DO1a)

2,4-dichlorophenol

Permethrin

Zinc

Nitrogen

2,4-dichlorophenoxyacetic High acid Arsenic High

Copper High Dimethoate High Iron High Linuron High Mecoprop High

High Toluene High Un-ionised ammonia High High

RBD: 6 Catchment: N_A

Supporting conditions

Current status (and Predicted Status by Justification for not achieving **Element** certainty of less than 2015 good status by 2015

good)

Tidal Regime - Freshwater Does not Support Good Does not Support Disproportionately expensive

(Uncertain) Good (HT1a)

Ecological Potential Assessment

Predicted Status by Element Current status Justification for not achieving 2015

good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3f)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Vessel Management	In Place
Modify vessel design	In Place
Manage disturbance	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Sediment management	In Place
Alter timing of dredging / disposal	In Place
Reduce sediment resuspension	In Place
Reduce impact of dredging	In Place
Prepare a dredging / disposal strategy	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Indirect / offsite mitigation (offsetting measures)	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Managed realignment of flood defence	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good) Fail (Very Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzene	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Moderate (Quite Certain)	Moderate	Technically infeasible (C2a)
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Diuron	Moderate (Uncertain)	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Tributyltin Compounds	Moderate (Very Certain)	Moderate	Technically infeasible (C2a)
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
DDT Total	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Waterbody Category and Map Code.: Transitional - T3 Surveillance site: No

Waterbody ID and Name: GB560504016800 Allhallows Marshes

National Grid Reference: TQ 85131 78475

Current Overall Status Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Not Designated A/HMWB

Reason for Designation:

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Status

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Supporting conditions

Element Current status (and Predicted Status by Justification for not achieving

certainty of less than 20

good)

Supports Good

good status by 2015

good status by 2015

Tidal Regime - Freshwater

Flow

Morphology Supports Good

Supports Good
Supports Good

Chemical Status

Current Status (and certainty that status is less than good)

Transitional - T4 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB560604017900 West Thurrock Lagoon

National Grid Reference: TQ 58566 76477

Current Overall Potential Moderate Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Coastal Protection

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Justification for not achieving Element Current status (and **Predicted Status by**

certainty of less than

good)

good status by 2015

Tidal Regime - Freshwater

Flow

Supports Good Supports Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Moderate Moderate Mitigation Measures Technically infeasible (M1e)

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Transitional - T5 Surveillance site: Yes

Waterbody ID and Name: GB530603911401 THAMES LOWER

National Grid Reference: TQ 85340 80133

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027, Good Chemical Status by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Bathing Water Directive, Natura 2000 (Habitats and/or Birds Directive),

Nitrates Directive, Shellfish Water Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation

Downstream Waterbody ID: GB640603690000

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Quite Certain)

Biological elements

Element Current status (and certainty of less than certainty of

good)

Invertebrates Moderate (Uncertain) Moderate Not Required (MS)

Macroalgae High High

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Dissolved Inorganic Nitrogen	Moderate (Uncertain)	Moderate	Disproportionately expensive (N1o)
Dissolved Oxygen	High	High	
2,4-dichlorophenol	High	High	
2,4-dichlorophenoxyacetic acid	High	High	
Arsenic	High	High	
Copper	Moderate (Quite Certain)	High	
Dimethoate	High	High	
Iron	High	High	
Linuron	High	High	
Mecoprop	High	High	
Permethrin	High	High	
Toluene	High	High	
Un-ionised ammonia	High	High	
Zinc	High	High	

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3f) Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Alter timing of dredging / disposal	In Place
Reduce impact of dredging	In Place
Prepare a dredging / disposal strategy	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Sediment management	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Managed realignment of flood defence	Not In Place
Bank rehabilitation / reprofiling	Not In Place
Increase in-channel morphological diversity	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Quite Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzene	High	High	
Benzo (a) and (k) fluoranthene	High	High	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Moderate (Uncertain)	Moderate	Technically infeasible (C2a)
Benzo(a)pyrene	High	High	
Cadmium And Its Compounds	High	High	
Diuron	High	High	
Fluoranthene	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Napthalene	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Tributyltin Compounds	Moderate (Quite Certain)	Moderate	Technically infeasible (C2a)
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Transitional - T6 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB560604017600 **Higham Marshes**

National Grid Reference: TQ 71894 76595

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

No SSSI (Non-N2K) related:

Artificial **Hydromorphological Designation:**

Reason for Designation: Dredge Disposal

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

good status by 2015

Tidal Regime - Freshwater Supports Good Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015

good status by 2015

Moderate Mitigation Measures Moderate Technically infeasible (M3e)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status Manage disturbance In Place

Prepare a dredging / disposal strategy **Not In Place**

Chemical Status

Current Status (and certainty that status is less than good)

Transitional - T7 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB560604017400 Murston Lakes

National Grid Reference: TQ 92782 66201

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation:

Downstream Waterbody ID: GB530604011500

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Supporting elements

Element Current status (and

certainty of less than

Predicted Status by 2015

Justification for not achieving

good status by 2015

Dissolved Inorganic

Moderate (Uncertain)

good)

Moderate

Disproportionately expensive

(N1a)

Nitrogen

Dissolved Oxygen High

High

Ecological Potential Assessment

Element Current status **Predicted Status by**

2015

Justification for not achieving

good status by 2015

Mitigation Measures

Assessment

Good

Good

Chemical Status

Current Status (and certainty that status is less than good)

Transitional - T8 Waterbody Category and Map Code.: Surveillance site: Yes

Waterbody ID and Name: GB530604002300 **MEDWAY**

National Grid Reference: TQ 82213 70920

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Bathing Water Directive, Freshwater Fish Directive, Natura 2000 (Habitats

and/or Birds Directive), Nitrates Directive, Shellfish Water Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation

Downstream Waterbody ID: GB530603911401

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element Current status (and

certainty of less than

good)

Predicted Status by 2015

Justification for not achieving

good status by 2015

Invertebrates Moderate (Uncertain) Good Moderate (Uncertain) Good Macroalgae

Supporting elements

Element **Current status (and** certainty of less than

good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Dissolved Inorganic Moderate (Uncertain) Moderate

Nitrogen

acid Arsenic

Iron

Copper

Dimethoate

Dissolved Oxygen

Disproportionately expensive

(N1e)

2,4-dichlorophenol

2,4-dichlorophenoxyacetic

High High

High

High

High

High

High

High High

High

High High High

Linuron High Mecoprop High

Permethrin High Toluene High High High High

> High High

Supporting conditions

Element **Current status (and**

certainty of less than good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Tidal Regime - Freshwater

Flow

Supports Good

Supports Good

Environment Agency, Annex B Thames River Basin District, December 2009

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Moderate Technically infeasible (M3e, M3f)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Vessel Management	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Sediment management	In Place
Alter timing of dredging / disposal	In Place
Reduce impact of dredging	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	In Place
Indirect / offsite mitigation (offsetting measures)	Not In Place
Prepare a dredging / disposal strategy	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Managed realignment of flood defence	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place
Remove obsolete structure	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Quite Certain)

Chemical elements

Element	Current status (and	Predicted Status by	Justification for not achieving
	certainty of less than good)	2015	good status by 2015
1,2-dichloroethane	High	High	
Atrazine	High	High	
Benzene	High	High	
Cadmium And Its Compounds	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	Moderate (Quite Certain)	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Simazine	High	High	
Tributyltin Compounds	High	High	
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Trifluralin	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Transitional - T9 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB560604017700 Cliffe Fort Lagoon

National Grid Reference: TQ 71260 75963

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Natura 2000 (Habitats and/or Birds Directive), Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Dredge Disposal

Downstream Waterbody ID: GB530603911400

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty

that status is less than good)

Moderate (Uncertain)

Supporting conditions

Tidal Regime - Freshwater

Element Current status (and **Predicted Status by** Justification for not achieving good status by 2015

certainty of less than

Supports Good

good)

Supports Good

Chemical Status

Flow

Current Status (and certainty that status is less than good)

Transitional - T10 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB530604011500 **SWALE**

National Grid Reference: TR 05475 67221

Current Overall Potential Moderate

(For Protected Area Objectives see Annex D) Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027, Good Chemical Status by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Bathing Water Directive, Natura 2000 (Habitats and/or Birds Directive),

Nitrates Directive, Shellfish Water Directive

No SSSI (Non-N2K) related:

Hydromorphological Designation: Heavily Modified Reason for Designation: Flood Protection

Downstream Waterbody ID: GB640604290000

Ecological Potential

Current Status (and certainty that status is less than good) Moderate (Uncertain)

Biological elements

Element Current status (and

certainty of less than

good)

2015

Justification for not achieving

good status by 2015

Macroalgae Moderate (Uncertain) Good

Supporting elements

Current status (and Element

certainty of less than

good)

Predicted Status by

Predicted Status by

2015

Justification for not achieving

good status by 2015

Dissolved Inorganic

Nitrogen

Arsenic

Copper Dimethoate

Iron

Zinc

Moderate (Uncertain)

Moderate

Disproportionately expensive

(N1e)

Dissolved Oxygen

High High High

High

High High High High High High

High

High

Supporting conditions

Element **Current status (and**

certainty of less than good)

Predicted Status by 2015

Justification for not achieving good status by 2015

Tidal Regime - Freshwater

Does not Support Good

(Very Certain)

Does not Support Good

Disproportionately expensive (HT3a)

Ecological Potential Assessment

Element **Current status** **Predicted Status by** 2015

Justification for not achieving good status by 2015

Mitigation Measures

Assessment

Moderate

Moderate

Technically infeasible (M3f)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Managed realignment of flood defence	Not In Place
Bank rehabilitation / reprofiling	Not In Place
Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Fail (Very Certain)

Chemical elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
1,2-dichloroethane	High	High	
Cadmium And Its Compounds	High	High	
Hexachlorobenzene	High	High	
Hexachlorobutadiene	High	High	
Hexachlorocyclohexane	High	High	
Lead And Its Compounds	High	High	
Mercury And Its Compounds	High	High	
Nickel And Its Compounds	High	High	
Pentachlorophenol	High	High	
Tributyltin Compounds	Moderate (Very Certain)	Moderate	Technically infeasible (C2a)
Trichlorobenzenes	High	High	
Trichloromethane	High	High	
Aldrin, Dieldrin, Endrin & Isodrin	High	High	
Carbon Tetrachloride	High	High	
para - para DDT	High	High	
Tetrachloroethylene	High	High	
Trichloroethylene	High	High	

Transitional - T11 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: GB560604017800 Mucking Flats and Marshes

National Grid Reference: TQ 68831 78813

Current Overall Potential Moderate Status Objective (Overall): Good by 2027

Good Ecological Potential by 2027 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Coastal Protection

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good) Moderate

Supporting conditions

Element Current status (and **Predicted Status by** Justification for not achieving

certainty of less than

good)

Supports Good

good status by 2015

Tidal Regime - Freshwater Supports Good

Flow

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015

good status by 2015

Moderate Moderate Mitigation Measures Technically infeasible (M1e)

Assessment

Chemical Status

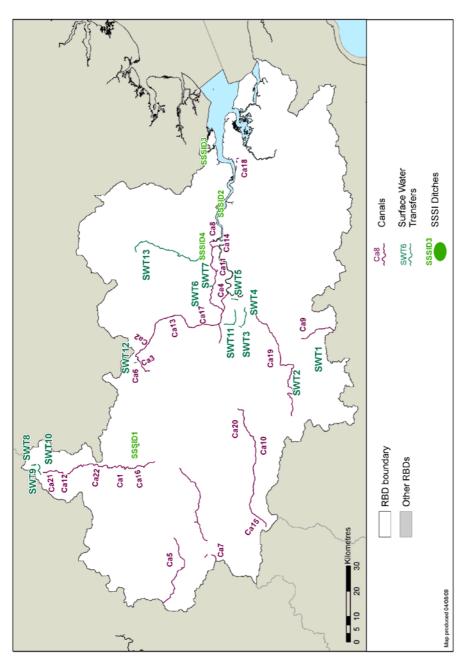
Current Status (and certainty that status is less than good)

B.24 Canals, surface water transfers and SSSI ditches

Canals, surface water transfer and SSSI ditches in the Thames river basin district

There are 22 canal water bodies, 13 surface water transfer water bodies and 4 SSSI ditches in the Thames river basin district.

Figure B.24.1 Canals, surface water transfers and SSSI ditches in the Thames river basin district



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Water body tables for canals, surface water transfers and SSSI ditches in the Thames river basin district

The current status and objectives for canals and surface water transfers in the following tables are largely based on hydromorphological assessments. Where information on any biological, physico-chemical or chemical elements was available these results have also been incorporated. The biological, physico-chemical or chemical elements will be further assessed, where appropriate, and the results will inform future assessments of status and objectives.

The hydromorphological assessments presented here are based on the presence or absence of measures that mitigate the modified or artificial hydromorphological characteristics of the canal or surface water transfer. This approach is explained in more detail in sections B. 4.1 and B 4.2 in this annex.

Note: In the following water body tables, only the relevant elements of the status objectives (shown under the orange sub headings) are shown.

Waterbody Category and Map Code.: Canal - Ca1 Surveillance site: No

Waterbody ID and Name: GB70610543 Oxford Canal, Thrupp section (River Cherwell)

National Grid Reference: SP 48402 17555

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca2 Surveillance site: No

Waterbody ID and Name: GB70610184 Grand Union Canal, Tring summit to Berkhamstead

National Grid Reference: SP 97652 08763

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Sediment management	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Canal - Ca3 Waterbody Category and Map Code.: Surveillance site: No

Waterbody ID and Name: **GB70610183** Grand Union Canal, Wendover Arm feeder (not a

National Grid Reference: SP 88595 11323

Good **Current Overall Potential**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No **Hydromorphological Designation:** Artificial

Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good) Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Phased de-watering and other techniques	In Place
Manage disturbance	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Sediment management	In Place
Alter timing of dredging / disposal	In Place
Reduce sediment resuspension	In Place
Reduce impact of dredging	In Place
Prepare a dredging / disposal strategy	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca4 Surveillance site: No

Waterbody ID and Name: GB70610186 Grand Union Canal, Hanwell Locks to River

National Grid Reference: TQ 16605 78214 Thames (River Brent)

Current Overall Potential Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty Good

that status is less than good)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca5 Surveillance site: No

Waterbody ID and Name: GB70610060 Thames and Severn canal

National Grid Reference: SU 04901 98262

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Recreation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca6 Surveillance site: No

Waterbody ID and Name: GB70610182 Grand Union Canal, Tring summit

National Grid Reference: SP 94575 12165

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Sediment management	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca7 Surveillance site: No

Waterbody ID and Name: GB70610061 Whiltshire_Berkshire canal

National Grid Reference: ST 98232 78916

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Recreation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca8 Surveillance site: No

Waterbody ID and Name: GB70610510 Regents Canal, lower section

National Grid Reference: TQ 33914 83654

Current Overall Potential Moderate
Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3g)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Vessel Management	In Place
Sediment management	In Place
Modify vessel design	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca9 Surveillance site: No

Waterbody ID and Name: GB70610017 Wey and Arun canal

National Grid Reference: TQ 06493 30152

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3g)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Appropriate timing (vegetation control)

Appropriate vegetation control technique

Selective vegetation control regime

Structures or other mechanisms in place and managed to enable fish to access waters upstream

Not In Place

Not In Place

and downstream of the impounding works.

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca10 Surveillance site: No

Waterbody ID and Name: GB70610180 Kennet & Avon Canal, Copse Lock to Reading

National Grid Reference: SU 58435 66353 (River Kennet and canal sections)

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	Good	Good	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Sediment management	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca11 Surveillance site: No

Waterbody ID and Name:

GB70610078

Grand Union Canal, Uxbridge to Hanwell Locks, Slough Arm, Paddington Arm, Regents Canal up

National Grid Reference: TQ 17198 84216

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Sediment management	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca12 Surveillance site: No

Waterbody ID and Name: GB70610098 Oxford Canal, summit to Aynho

National Grid Reference: SP 45602 41677

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca13 Surveillance site: No

Waterbody ID and Name: GB70610185 Grand Union Canal, Berkhamstead to Maple Lodge

National Grid Reference: TL 07859 01503 (RIvers Bulbourne, Gade & Colne plus

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Sediment management	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca14 Surveillance site: No

Waterbody ID and Name: GB70610068 River Lee Navigation, tidal section

National Grid Reference: TQ 38604 81753

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Flood Protection, Navigation, Urbanisation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate (Uncertain)

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Manage disturbance	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Sediment management	In Place
Alter timing of dredging / disposal	In Place
Reduce sediment resuspension	In Place
Reduce impact of dredging	In Place
Prepare a dredging / disposal strategy	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca15 Surveillance site: No

Waterbody ID and Name: GB70610181 Kennet & Avon Canal, summit to Copse Lock

National Grid Reference: SU 31949 68368

Current Overall Potential Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Sediment management	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca16 Surveillance site: No

Waterbody ID and Name: GB70610542 Oxford Canal, Thrupp to Thames

National Grid Reference: SP 48328 14072

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Sediment management	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca17 Surveillance site: No

Waterbody ID and Name: GB70610252 Grand Union Canal, Maple Lodge to Uxbridge (Rivers Colne and Chess plus canal sections)

National Grid Reference: TQ 05145 87875

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Sediment management	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca18 Surveillance site: No

Waterbody ID and Name: GB70610011 Thames & Medway Canal

National Grid Reference: TQ 67254 74034

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Recreation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3h)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure Status

Awareness raising / information boards (invasive species)

Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca19 Surveillance site: No

Waterbody ID and Name: GB70610019 Basingstoke canal

National Grid Reference: SU 84581 52760

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	Good	Good	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Ecological Potential Assessment

Element Current status Predicted Status by 2015 Justification for not achieving good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M3g)

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Sediment management	Not In Place
Increase in-channel morphological diversity	Not In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	Not In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	Not In Place
Operational and structural changes to locks, sluices, weirs, beach control, etc	Not In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	Not In Place
Prepare a dredging / disposal strategy	Not In Place
Reduce impact of dredging	Not In Place
Preserve and, where possible, restore historic aquatic habitats	Not In Place
Alter timing of dredging / disposal	Not In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	Not In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	Not In Place
Manage disturbance	Not In Place
Phased de-watering and other techniques	Not In Place
Selective vegetation control regime	Not In Place
Appropriate vegetation control technique	Not In Place
Appropriate timing (vegetation control)	Not In Place
Modify vessel design	Not In Place
Awareness raising / information boards (invasive species)	Not In Place
Reduce sediment resuspension	Not In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca20 Surveillance site: No

Waterbody ID and Name: GB70610081 Kennet & Avon Canal, Copse Lock to Reading

National Grid Reference: SU 68281 70901 (River Kennet and canal sections)

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Appropriate channel maintenance strategies and techniques - woody debris	In Place
Appropriate channel maintenance strategies and techniques - minimise disturbance to channel bed and margins	In Place
Sediment management strategies (develop and revise)	In Place
Appropriate techniques (invasive species)	In Place
Appropriate timing (vegetation control)	In Place
Appropriate vegetation control technique	In Place
Selective vegetation control regime	In Place
Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca21 Surveillance site: No

Waterbody ID and Name: GB70610197 Oxford Canal, summit to Aynho

National Grid Reference: SP 45565 42013

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
рН	High	High	
Phosphate	Good	Good	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Ecological Potential Assessment

Element	Current status	Predicted Status by 2015	Justification for not achieving good status by 2015
Mitigation Measures Assessment	Good	Good	

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Sediment management	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Canal - Ca22 Surveillance site: No

Waterbody ID and Name: GB70610198 Oxford Canal, Aynho to Thrupp

National Grid Reference: SP 49305 25495

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No
Hydromorphological Designation: Artificial
Reason for Designation: Navigation

Downstream Waterbody ID:

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Supporting elements

Element	Current status (and certainty of less than good)	Predicted Status by 2015	Justification for not achieving good status by 2015
Ammonia (Phys-Chem)	High	High	
рН	High	High	
Phosphate	High	High	
Temperature	High	High	
Copper	High	High	
Zinc	High	High	
Ammonia (Annex 8)	High	High	

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving 2015 good status by 2015

Mitigation Measures Good Good

Assessment

Mitigation Measures that have defined Ecological Potential

Mitigation Measure	Status
Manage disturbance	In Place
Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone	In Place
Avoid the need to dredge (e.g. minimise under-keel clearance; use fluid mud navigation; flow manipulation or training works)	In Place
Prepare a dredging / disposal strategy	In Place
Reduce impact of dredging	In Place
Reduce sediment resuspension	In Place
Alter timing of dredging / disposal	In Place
Bank rehabilitation / reprofiling	In Place
Site selection (dredged material disposal) (e.g. avoid sensitive sites)	In Place
Awareness raising / information boards (boat wash / sources of fine sediment)	In Place
Phased de-watering and other techniques	In Place
Selective vegetation control regime	In Place
Appropriate vegetation control technique	In Place
Appropriate timing (vegetation control)	In Place
Appropriate techniques (invasive species)	In Place
Modify vessel design	In Place
Vessel Management	In Place
Sediment management	In Place

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Surface Water Transfer - SWT1 Surveillance site: No

Waterbody ID and Name: GB806100099 Thursley/Forked Pond

National Grid Reference: SU 91963 41574

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Water Regulation (strategic transfer)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Surface Water Transfer - SWT2 Surveillance site: No

Waterbody ID and Name: GB806100098 MoD site nr Aldershot - Bricksberry Hill

National Grid Reference: SU 82409 50223

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Water Regulation (strategic transfer)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: Surface Water Transfer - SWT3 Surveillance site: No

Waterbody ID and Name: GB806100097 From King George's Reservoir - ? Linked to 96

National Grid Reference: TQ 04504 72383

Current Overall Potential Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Water Regulation (strategic transfer)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Good

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: N_A

Waterbody Category and Map Code.: Surface Water Transfer - SWT4 Surveillance site: No

Waterbody ID and Name: GB806100096 From King George's Reservoir

TQ 08480 70260 **National Grid Reference:**

Good **Current Overall Potential**

Status Objective (Overall): Good by 2015

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Not Designated **Protected Area Designation:**

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Water Regulation (strategic transfer) **Reason for Designation:**

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Good

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: N A

Waterbody Category and Map Code.: Surface Water Transfer - SWT5 Surveillance site: No

Waterbody ID and Name: GB806100095 unknown

TQ 15322 74660 **National Grid Reference:**

Good **Current Overall Potential**

(For Protected Area Objectives see Annex D) Good by 2015 **Status Objective (Overall):**

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive

SSSI (Non-N2K) related: No **Hydromorphological Designation:** Artificial

Water Regulation (strategic transfer) **Reason for Designation:**

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Good

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Surface Water Transfer - SWT6 Surveillance site: No

Waterbody ID and Name: GB806100092 unknown

National Grid Reference: TQ 20293 84406

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Water Regulation (strategic transfer)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

(M2h)

Mitigation Measures Moderate Moderate Disproportionately expensive

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Surface Water Transfer - SWT7 Surveillance site: No

Waterbody ID and Name: GB806100055 unknown

National Grid Reference: TQ 20693 86359

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Water Regulation (strategic transfer)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Disproportionately expensive

Assessment

(M2h)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: Surface Water Transfer - SWT8 Surveillance site: No

Waterbody ID and Name: GB806100004 Boddington Reservoir Feeder (Oxford Canal)

National Grid Reference: SP 49514 54210

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Navigation, Water Regulation (strategic transfer)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: Surface Water Transfer - SWT9 Surveillance site: No

Waterbody ID and Name: GB806100003 Boddington Pumped Feeder (Oxford Canal)

National Grid Reference: SP 49305 54122

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Navigation, Water Regulation (strategic transfer)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty

that status is less than good)

Waterbody Category and Map Code.: Surface Water Transfer - SWT10 Surveillance site: No

Waterbody ID and Name: GB806100002 Boddington Feeder (Oxford Canal)

National Grid Reference: SP 47588 52241

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Navigation, Water Regulation (strategic transfer)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: Surface Water Transfer - SWT11 Surveillance site: No

Waterbody ID and Name: GB806100108 unknown

National Grid Reference: TQ 06244 74411

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Water Regulation (strategic transfer)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Chemical Status

Current Status (and certainty that status is less than good)

RBD: 6 Catchment: N A

Surface Water Transfer - SWT12 Surveillance site: No Waterbody Category and Map Code.:

Waterbody ID and Name: GB806100324 Gudgeon Brook Feeder

National Grid Reference: SP 90229 13952

Good **Current Overall Potential**

(For Protected Area Objectives see Annex D) Good by 2015 Status Objective (Overall):

Good Ecological Potential by 2015 Status Objective(s):

Justification if overall objective is

not good status by 2015:

Nitrates Directive Protected Area Designation:

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Land Drainage, Navigation, Water Regulation (impoundment release)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: Surface Water Transfer - SWT13 Surveillance site: No

Waterbody ID and Name: GB806100111 unknown

National Grid Reference: TL 37663 08554

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Water Regulation (strategic transfer)

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Good

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: SSSI Ditch - SSSID1 Surveillance site: No

Waterbody ID and Name: GB906001000769 OTMOOR

National Grid Reference: SP 57431 13079

Current Overall Potential Moderate

Status Objective (Overall): Good by 2027 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2027

Justification if overall objective is

not good status by 2015:

Disproportionately expensive, Technically infeasible

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Land Drainage, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential

Current Status (and certainty that status is less than good)

Moderate

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Moderate Moderate Technically infeasible (M1b, M1g)

Assessment

Chemical Status

Current Status (and certainty that status is less than good)

Waterbody Category and Map Code.: SSSI Ditch - SSSID2 Surveillance site: No

Waterbody ID and Name: GB906001000113 INNER THAMES MARSHES

National Grid Reference: TQ 53335 80229

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Nitrates Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Land Drainage, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)

Waterbody Category and Map Code.: SSSI Ditch - SSSID3 Surveillance site: No

Waterbody ID and Name: GB906001001705 PITSEA MARSH

National Grid Reference: TQ 74158 86989

Current Overall Potential Good

Status Objective (Overall): Good by 2015

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Not Designated

SSSI (Non-N2K) related: No

Hydromorphological Designation: Artificial

Reason for Designation: Land Drainage, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment that status is less than good)

Waterbody Category and Map Code.: SSSI Ditch - SSSID4 Surveillance site: No

Waterbody ID and Name: GB906001000343 WALTHAMSTOW MARSHES

National Grid Reference: TQ 35213 87488

Current Overall Potential Good

Status Objective (Overall): Good by 2015 (For Protected Area Objectives see Annex D)

Status Objective(s): Good Ecological Potential by 2015

Justification if overall objective is

not good status by 2015:

Protected Area Designation: Freshwater Fish Directive, Nitrates Directive, Urban Waste Water Treatment

Directive

SSSI (Non-N2K) related: No

Hydromorphological Designation: Heavily Modified

Reason for Designation: Land Drainage, Wider Environment

Downstream Waterbody ID:

Note: Current Status and Status Objectives for this water body are based on Expert Judgement

Ecological Potential (note: no biology data)

Current Status (and certainty

that status is less than good)

Good

Ecological Potential Assessment

Element Current status Predicted Status by Justification for not achieving

2015 good status by 2015

Mitigation Measures Good Good

Assessment

Chemical Status

Current Status (and certainty Does not require assessment

that status is less than good)