Moving towards common standards monitoring guidance targets for SAC rivers

Record of decisions

Introduction

Targets for water quality and flows are determined for Natura 2000 sites by Natural England with reference to Common Standards Monitoring Guidance (CSMG). Targets for these elements similarly form the basis for assessments of the ecological status of water bodies under the Water Framework Directive (WFD). Water dependant Natura 2000 sites are defined as protected areas under the WFD.

Where possible a single target should be set for elements that are common to the water body and coincident Natura 2000 protected area. However, where achievement of the targets based on CSMG is not possible in the next river basin planning cycle then interim progress goals have been agreed by Natural England and the Environment Agency. These can be in the form of numerical targets or, if inappropriate to set quantitative targets, descriptive measures that will achieve, by 2021, progress towards the long term targets set using CSMG.Where only the CSMG target is expressed, this is the target for 2021.

This document summarizes the decisions made by Natural England and the Environment Agency on the standards that need to be achieved for elements of environmental quality that support the achievement of objectives for the named Natura 2000 protected area. The draft second river basin management plans will be used to consult the public about the locally proposed measures and targets.

Where it has not been possible to agree specific targets, usually because further technical work is required, these will be indicated by an asterisk. In these cases the proposed CSMG target is included as advice from Natural England but it is subject to further validation throughout the period of the consultation and beyond. Where no interim goal or CSMG targets are specified, it is currently considered that the elements are not relevant, or are insufficiently understood for this river.

GB108049000020 Demelza Stream (Ruthern) (river) South West River Basin District

	CSMG Target	Interim Progress Goal (quantitative target or descriptive measure) by 2021
Flows (% deviations from daily naturalised flow)		
Low flows	5	10; Long term target subject to further validation. Interim target = target used in Review of Consents
Low-moderate flows	10	10; Long term target subject to further validation. Interim target = target used in Review of Consents
Moderate-high flows	10	10; Long term target subject to further validation. Interim target = target used in Review of Consents
High flows	10	10; Long term target subject to further validation. Interim target = target used in Review of Consents
Soluble Reactive Phosphorus ('orthophosphate' expressed as P)		
As annual and growing season means (µg/L)	20	20; Currently meeting HES and NNT most of time. Maintain this level. CSF to be targeted in the future.
Acidification		
pH		n/a
Acid Nuetralising Capacity (ANC)		n/a
Organic Pollution		
Un-ionised ammonia (mg/L as 95%ile)	0.025	0.025; Short-term WQ monitoring by NE (winter 2013/14) suggests that JNCC target (0.025) is met
Total ammonia (mg/L as 90%ile)	0.200	0.2; HES is lower target than JNCC target HES has been selected as interim and long term target.
Mean Biological Oxygen Demand (mg/L)	1.500	3; Maintain HES target (3) as interim target with long term goal of 1.5.
Dissolved Oxygen (% saturation as 10%ile)	85	85

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Acidification		
pH		n/a
Acid Nuetralising Capacity (ANC)		n/a
Organic Pollution		
Un-ionised ammonia (mg/L as 95%ile)	0.025	0.025; Short-term WQ monitoring by NE (winter 2013/14) suggests that JNCC target (0.025) is met
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As annual and growing season means (µg/L)	20	20; Currently meeting HES and NNT most of time. Maintain this level. CSF to be targeted in the future.
Acidification		
pH		n/a
Acid Nuetralising Capacity (ANC)		n/a
Organic Pollution		
Un-ionised ammonia (mg/L as 95%ile)	0.025	0.025; Short-term WQ monitoring by NE (winter 2013/14) suggests that JNCC target (0.025) is met
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High flows	10	10; Long term target subject to further validation. Interim target = target used for Review of Consents
Soluble Reactive Phosphorus ('orthophosphate' expressed as P)		
As annual and growing season means (µg/L)	40	40; See Temporary Recording Sheet GAC V1.7 for full details
Acidification		
pH		n/a
Acid Nuetralising Capacity (ANC)		n/a
Organic Pollution		
Un-ionised ammonia (mg/L as 95%ile)	0.025	0.025; Short-term WQ monitoring by NE (winter 2013/14) suggests that JNCC target (0.025) is met
Total ammonia (mg/L as 90%ile)	0.200	0.2; HES is lower target than JNCC target HES has been selected as interim and long term target
Mean Biological Oxygen Demand (mg/L)	1.500	0.3; Maintain HES target (3) as interim target with long term goal of 1.5.
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Soluble Reactive Phosphorus ('orthophosphate' expressed as P)		
As annual and growing season means (µg/L)	20	30; STW improvements options to be explored PR19 and RBMP3 to achieve target
Acidification		
pH		n/a
Acid Nuetralising Capacity (ANC)		n/a
Organic Pollution		
Un-ionised ammonia (mg/L as 95%ile)	0.025	0.025; Short-term WQ monitoring by NE (winter 2013/14) suggests that JNCC target (0.025) is met
Total ammonia (mg/L as 90%ile)	0.200	0.2; HES is lower target than JNCC target HES has been selected as interim and long term target
Mean Biological Oxygen Demand (mg/L)	1.500	3; Maintain HES target (3) as interim target with long term goal of 1.5.
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High flows	10	10; Long term target subject to further validation. Interim target = target used for Review of Consents
Soluble Reactive Phosphorus ('orthophosphate' expressed as P)		
As annual and growing season means (µg/L)	15	15; Maintain at HES (target = 13, here rounded up to 15)
Acidification		
pH		n/a
Acid Nuetralising Capacity (ANC)		n/a
Organic Pollution		
Un-ionised ammonia (mg/L as 95%ile)	0.025	0.025; Short-term WQ monitoring by NE (winter 2013/14) suggests that JNCC target (0.025) is met.
Total ammonia (mg/L as 90%ile)	0.200	0.2; HES is lower target than JNCC target HES has been selected as interim and long term target
Mean Biological Oxygen Demand (mg/L)	1.500	3; Maintain HES target (3) as interim target with long term goal of 1.5.
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High flows	10	10; Long term target subject to further validation. Interim target = target used for Review of Consents
Soluble Reactive Phosphorus ('orthophosphate' expressed as P)		
As annual and growing season means (µg/L)	20	40; Long-term and interim targets for the Sladesbridge monitoring point are 30 and 50 respectively.
Acidification		
pH		n/a
Acid Nuetralising Capacity (ANC)		n.a
Organic Pollution		
Un-ionised ammonia (mg/L as 95%ile)	0.025	0.03; HES target (0.03) as interim progress goal and CSM SAC target (0.025) for long term.
Total ammonia (mg/L as 90%ile)	0.200	0.2; HES has been selected as interim and long term target - at Sladesbridge this is 0.300.
Mean Biological Oxygen Demand (mg/L)	1.500	3; Maintain HES target (3) as interim target with long term goal of 1.5.
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High flows	10	10; Long term target subject to further validation. Interim target = target used for Review of Consents
Soluble Reactive Phosphorus ('orthophosphate' expressed as P)		
As annual and growing season means (µg/L)	10	10; Near natural target (NNT)/ HES target considered achievable.
Acidification		
pH		n/a
Acid Nuetralising Capacity (ANC)		n/a
Organic Pollution		
Un-ionised ammonia (mg/L as 95%ile)	0.025	0.025; Short-term WQ monitoring by NE (winter 2013/14) suggests that JNCC target (0.025) is met.
Total ammonia (mg/L as 90%ile)	0.200	0.2; HES is lower target than JNCC target HES has been selected as interim and long term target
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Dissolved Oxygen (% saturation as 10%ile)	85	85

The targets and goals underpinning the conservation objectives for rivers within River Camel Natura 2000 site have been jointly agreed between Natural England and the Environment Agency.

Natural England

Comment: For full information supporting decision on targets for each attribute please refer to the document Temporary Recording Sheet GAC V1.7. (available on request from local NE office).

Agreed by: Orlando Venn

Date: 26 August 2014

Environment Agency

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Agreed by: Elly Andison

Date: 26 August 2014