Water body information sheet for water body 10420 in Clyde

General details

Water body name:	River Ayr (d/s Greenock Water)
Water body Identifier code:	10420
Length:	46.41 km
Water body category:	River
River basin district:	Scotland
Area advisory group:	Clyde
Catchment:	River Ayr
Associated protected areas:	Howford Bridge - SSSI River Ayr (d/s Greenock Water) - UWWTD SENSITIVE AREA (EXISTING) River Ayr - FRESHWATER FISH (EXISTING) Stairhill - SSSI
Associated groundwater:	Mauchline
Responsible body:	SEPA Ayr
Heavily modified:	No
Artificial:	No
Typology:	Mid-altitude Medium Calcareous
National Grid Reference:	NS 47308 25448
Latitude:	55.49889
Longitude:	-4.41879

Current status of this water body

Classification results are updated annually, as part of SEPA's commitment to monitor and assess the condition of the environment.

Once the classification is agreed, as part of river basin management planning, the pressures and measures for every water body are reviewed to ensure that they reflect this improved understanding of the environment. Objectives are reviewed as part of the six yearly planning cycle and any proposed changes to objectives will be presented in the draft river basin plans http://sepa.org.uk/water/river_basin_planning.aspx.

This worksheet was produced using the most up to date classification results but the measures, pressures and objectives shown may not yet align to these classification results. Please contact rbmp@sepa.org.uk if you require further information on this water body.

We have classified this water body as having an overall status of Poor with High confidence in 2012 with overall ecological status of Poor and overall chemical status of Pass.

The overall classification of status is made up of many different tiers of classification data. A complete set of classification data for 2012 is shown at the end of this document.

Targets for the future status of this water body

We have set environmental objectives for this water body over future river basin planning cycles in order that sustainable improvements to its status can be made over time, or alternatively that no deterioration in status occurs, unless caused by a new activity providing significant specified benefits to society or the wider environment.

For this water body we have set the overall environmental objectives for the first, second and third River Basin Management Planning (RBMP) cycles as:

Year	2012	2015	2021	2027
Status	Poor	Moderate	Moderate	Good
Year	2012	2015	2021	2027
Status	Poor	Pass	Pass	Pass

Pressures and measures on this water body

We have established an ongoing programme of monitoring in order to identify pressures on our water bodies.

The pressures listed below contribute to this water body's failure to meet good ecological status or potential. River basin planning allows us to plan improvements for particular parameters over time. We have collaborated with others to identify measures which will act to protect or improve our water environment in order that all water bodies reach good status over successive RBMP cycles.

The following table shows our collated information on the pressures on this water body, their causes and the measures which could be introduced to mitigate their effects. We have also indicated the current funding status of the measure; with projected measures being potentially funded and agreed measures having funding in place. Finally, we have included information on the potential or actual owner of the measure, the date it will be effective and information on the justification for extending the deadlines or for setting an alternative objective, where appropriate.

Pressure	**As a Result of**	**Assessment Parameter**	**Objective**	**Reasons for Failure**
	Measure	**Funding**	**Owner**	**Effective date**
Diffuse Source Pollution	Livestock farming	Phosphorus	Moderate by 2015	Implementation of the measure by an earlier deadline would impose disproportionate burdens
	Non-urban land management measures	Projected	Farmer(s)	31/12/2014
Point Source Pollution	Sewage disposal	Phosphorus	Moderate by 2015	Implementation of the measure by an earlier deadline would impose disproportionate burdens
	Reduce at source	Projected	Scottish Water	31/03/2014
Abstraction	Water collection, purification and distribution	Depletion of base flow from GW body	Good by 2015	
	Improve water efficiency (e.g. abstraction matches need) or reduce need	Agreed	Farmer(s)	31/12/2014
Abstraction	Production of renewable electricity (NB nuclear and pumped hydro are not renewable forms of electricity generation)	Change from natural flow conditions	Good by 2015	

Pressure	As a Result of	Assessment Parameter	Objective	Reasons for Failure
	Measure	**Funding**	**Owner**	**Effective date**
	Control Abstraction	Neither Agreed nor Projected	Landowner(s)	31/12/2014
Point Source Pollution	Sewage disposal	Dissolved Oxygen	High by 2015	
	Reduce at source	Agreed	Scottish Water	31/03/2014
Point Source Pollution	Sewage disposal	Ammonia	High by 2015	
	Increase treatment	Agreed	Scottish Water	31/03/2014
Diffuse Source Pollution		Phosphorus	Moderate by 2015	Implementation of the measure by an earlier deadline would impose disproportionate burdens
	Retrofit/improve existing SUDS	Projected	Owner Not Yet Agreed	31/12/2014
Diffuse Source Pollution		UK Specific pollutants (Annex 8)	Not yet set	

Footnote – These results show current classification but the measures, pressures and objectives shown may not yet align to these classification results. Please contact rbmp@sepa.org.uk if you require further information on this water body.

Future work

Additional work to identify pressures and to develop and implement measures to mitigate their impacts will continue over subsequent river basin cycles.

Complete classification for this water body in 2012

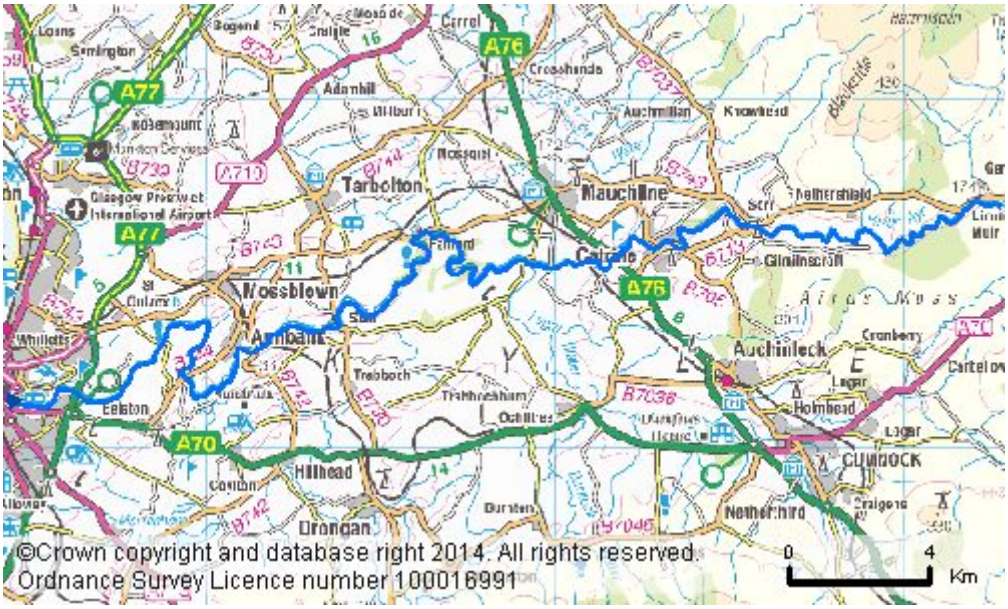
Parameter	Status	Confidence of Class
OVERALL STATUS	POOR	HIGH
Pre-HMWB status	Poor	High
Overall chemistry	Pass	High

Parameter	Status	Confidence of Class
Priority substances	Pass	High
Benzo-a-pyrene	Pass	High
Anthracene	Pass	High
Atrazine	Pass	Low
Benzo-(B+K)-Fluoranthene	Pass	High
Cadmium	Pass	High
Chlorpyrifos	Pass	Low
Fluoranthene	Pass	High
Hexachlorobenzene	Pass	Low
Isoproturon	Pass	High
Lead	Pass	High
Naphthalene	Pass	High
Nickel	Pass	High
pp-DDT	Pass	Low
Simazine	Pass	Low
Trifluralin	Pass	Low
Endosulfan	Pass	Low
Total HCH	Pass	Low
Diethylhexylphthalate (DEHP)	Pass	High
Chlorfenvinphos	Pass	Low
Total Drins	Pass	Low
Diuron	Pass	High
Mercury	Pass	Low
Total DDT	Pass	Low
Overall ecology	Poor	High
Physico-Chem	Good	High
Temperature	Good	Medium
Soluble reactive phosphorus	Good	High
pH	High	High
Dissolved Oxygen	High	High
Biological elements	Poor	High
Phytobenthos	Poor	High
Macrophytes	High	High
Benthic invertebrates	Good	High

Parameter	Status	Confidence of Class
Macro-invertebrates (acid)	High	Low
Macro-invertebrates (RiCT)	Good	High
Macro-invertebrates (ASPT)	Good	High
Macro-invertebrates (NTAXA)	High	High
Alien species	High	Low
Fish	High	Medium
Fish ecology	High	Low
Fish barrier	High	Medium
Specific pollutants	Pass	High
Arsenic	Pass	High
Diazinon	Pass	Low
Linuron	Pass	High
Permethrin	Pass	Low
Iron	Pass	High
Copper	Pass	High
Zinc	Pass	High
Dimethoate	Pass	Low
2,4-D	Pass	High
Mecoprop	Pass	High
Ammonium	Pass	High
Chromium	Pass	High
Hydromorphology	Good	Medium
Morphology	Good	Medium
Hydrology	Good	Medium
Hydrology (impoundment)	Good	Medium
Hydrology (abstraction)	Good	Medium
Regulatory BOD	High	High
Regulatory ammonium	High	High
Water quality	Poor	High
Morphological pressures	Good	Medium

Location of this water body

You can find the geographical location of this water body by searching on water body ID in the interactive maps at www.sepa.org.uk/water/river_basin_planning.aspx



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