

Annex C Water Quality

Water Quality of South Ayrshire's Main Waterbodies

Water Body	Length	Status	Pressures on Waterbody	Measures to Reduce Pressures	Objective	2015 Status	2021 Status	2027 Status
River Ayr	46.41km	Moderate	Diffuse Source Pollution: Sewage Disposal, Urban Development, Livestock Farming	Reduce point source inputs, change timing or frequency of discharge, increase treatment, and retrofit/improve existing SUDs.	General Water Quality – Phosphorus	Good	High	Good
					General Water Quality - BOD	Good	High	Good
					General Water Quality - Ammonia	Good	High	Good
Slaphouse Burn	7.97km	Poor	Diffuse Source Pollution: Sewage Disposal, Urban Development, Livestock Farming Morphological Alterations	Improve Modified Habitat Improve existing SUDs	General Water Quality – Phosphorus	Moderate	Good	Good
					General Water Quality - BOD	High	High	High
					General Water Quality - Ammonia	High	High	High
River Stinchar	15.09 km	Good	Morphological Alterations	Agriculture and Forestry	Physical structure and condition of the bed and banks/shore	Good	Good	Good
Water of Girvan	13.72 km	Poor	Diffuse Source Pollution: Mixed Farming. Morphological Alterations: Mixed Farming, Construction/Structures, Flood Defence, Chemicals production, impounding. Abstraction: Chemicals Production. Point Sources Pollution	Reduce Point Source Inputs Improvement to condition of Riparian Zone/wetland habitats	Physical structure and condition of the bed and banks/shore - Multiple Pressure	Poor	Poor	Poor
					Physical structure and condition of the bed and banks/shore - Single Pressure	Moderate	Moderate	Moderate
					General Water Quality – Phosphorus	High	High	High
					General Water Quality -	High	High	High

Water Body	Length	Status	Pressures on Waterbody	Measures to Reduce Pressures	Objective	2015 Status	2021 Status	2027 Status
					BOD			
					General Water Quality - Ammonia	High	High	High
Water of Lendal	8.02 km	Good	Diffuse Source Pollution: Agriculture and Forestry	None	General Water Quality	Good	Good	Good
Milton Burn	10.19 km	Poor	Abstraction: Arable farming, Chemicals production, Water collection, purification and distribution. Diffuse Source Pollution: Livestock farming. Flow Regulation: Chemicals production.	Control Abstraction. Improve Regulated Flows.	Water Flow and Water Levels – change from Natural Flow Conditions	Poor	Good	Good
					Water Flow and Water Levels – Depletion of base flow from GW Body	Poor	Good	Good
					General Water Quality – Phosphorus	Good	Good	Good
					General Water Quality - BOD	Good	Good	Good
					General Water Quality - Ammonia	Good	Good	Good
Culroy Burn / Minishant Burn	8.56 km	Good	Diffuse Source Pollution: Livestock farming. Morphological Alterations: Channelisation, realignment, straightening.	None	General Water Quality – Phosphorus	High	High	High
					General Water Quality - BOD	High	High	High
					General Water Quality - Ammonia	High	High	High
					Physical structure and condition of the bed and banks/shore - Single Pressure	Good	Good	Good
Water of Coyle	13.39 km	Good	Diffuse Source Pollution: Livestock farming, Forestry.	None	General Water Quality – Phosphorus	High	High	High
					General Water Quality - BOD	High	High	High

Water Body	Length	Status	Pressures on Waterbody	Measures to Reduce Pressures	Objective	2015 Status	2021 Status	2027 Status
					General Water Quality - Ammonia	High	High	High
Rumbling Burn	7.63 km	Moderate	Diffuse Source Pollution: Livestock farming. Morphological Alterations.	Improve modified habitat.	Physical structure and condition of the bed and banks/shore - Multiple Pressure	Good	Good	Good
					General Water Quality - Ammonia	Poor	Poor	Poor
					General Water Quality – Phosphorus	Moderate	Moderate	Moderate
					General Water Quality - BOD	Bad	Poor	Moderate
River Doon	40.1 km	Bad ecological potential	Diffuse Source Pollution: Livestock Farming, Mixed Farming. Morphological Alterations: Substrate manipulation, flow manipulation. Flow Regulation: Impounding, Aquaculture. Abstraction: Aquaculture.	None	General Water Quality - Phosphorous	Good	Good	Good
					UK Specific Pollutants	Good	Good	Good
Pow Burn	13.89 km	Poor	Diffuse Source Pollution: Livestock Farming, Air transport urban development, sewage disposal, mining and quarrying of coal. Morphological Alterations.	Retrofit/Improve existing SUDs.	General Water Quality - Phosphorous	Moderate	Good	Good
					UK Specific Pollutants	Failing to achieve good	Good	Good
					General Water Quality - BOD	Poor	Moderate	Good
					Water Quality - Ammonia	Moderate	Good	Good

Water Body	Length	Status	Pressures on Waterbody	Measures to Reduce Pressures	Objective	2015 Status	2021 Status	2027 Status
Coastal – Culzean	89.06 km ²	Moderate	Point Source Pollution: Sewage disposal. Diffuse Source Pollution: Mixed Farming Alien Species	None	Invasive Non-Native Species – Japanese Knotweed <i>Sargassum muticum</i>	Moderate	Moderate	Moderate
					General Water Quality - Nitrogen	Good	Good	Good
Coastal - Girvan	134.43 km ²	Moderate	Point Source Pollution: Sewage disposal, food production. Diffuse Source Pollution: Mixed farming.	Reduce at Source	Water Quality - Unknown Parameter - Unknown Organics	Moderate	Good	Good
					General Water Quality - Dissolved Oxygen	Good	Good	Good
					General Water Quality - Nitrogen	Good	Good	Good
Coastal – Ayr Bay	98.32km ²	Good	Diffuse Source Pollution: Mixed farming, sewage disposal.	None	General Water Quality - Nitrogen	Good	Good	Good
Coastal - Ballantrae	38.09km ²	Moderate	None	None	None	None	None	None

(SEPA, 2009)

Annex D Soils and Geology – Vacant and Derelict Land Survey 2008

Site Type	Location of Site	Location	Size (Ha)	EAST	NORTH	Year of Survey	Site Code
Vacant land	Within a settlement of 2,000+	Maybole, nr Lovers Lane	0.37	230610	610490	2008	7
Derelict land	Within a settlement of 2,000+	Prestwick, Shaw Road	1.27	236540	626420	2008	200
Vacant land & buildings	Within a settlement of 2,000+	Maybole, Mill Street	0.45	229760	609810	2008	239
Vacant land	Within a settlement of 2,000+	Ayr, west of Old Bridge Road	0.64	235740	623260	2008	246
Vacant land	Within a settlement of 2,000+	Ayr, west of Old Bridge Road	0.33	236110	623390	2008	247
Derelict land & buildings	Within a settlement of 2,000+	Ayr, Heathfield Road	3.64	235430	623830	2008	249
Derelict land & buildings	Within a settlement of 2,000+	Ayr, north of Old Street, near the Golf Course	1.25	218610	598410	2008	254
Derelict land	Within a settlement of 2,000+	Ayr, Mccalls Avenue	0.27	234240	623010	2008	1D
Operational land defined as derelict	Within a settlement of 2,000+	Ayr, east of West Sanquar Road	7.21	234920	623110	2008	1E
Derelict land	Within a settlement of 2,000+	Prestwick, east of the hospital	39.26	236380	624780	2008	212B
Derelict land & buildings	Within a settlement of 2,000+	Ayr, west of Doonfoot Road	1.32	233050	620360	2008	A2
Derelict land	Within a settlement of 2,000+	Ayr, west of Somerset Road	0.87	234560	622810	2008	A5
Derelict land & buildings	Within a settlement of 2,000+	Ayr, west of Old Bridge Road	1.27	235590	623330	2008	A6
Derelict buildings	Within a settlement of 2,000+	Ayr, A719 near Wills Street	0.17	235330	622640	2008	GW003
Derelict buildings	Within the countryside	Near Barr, Off B734	0.76	227220	593790	2008	GW005