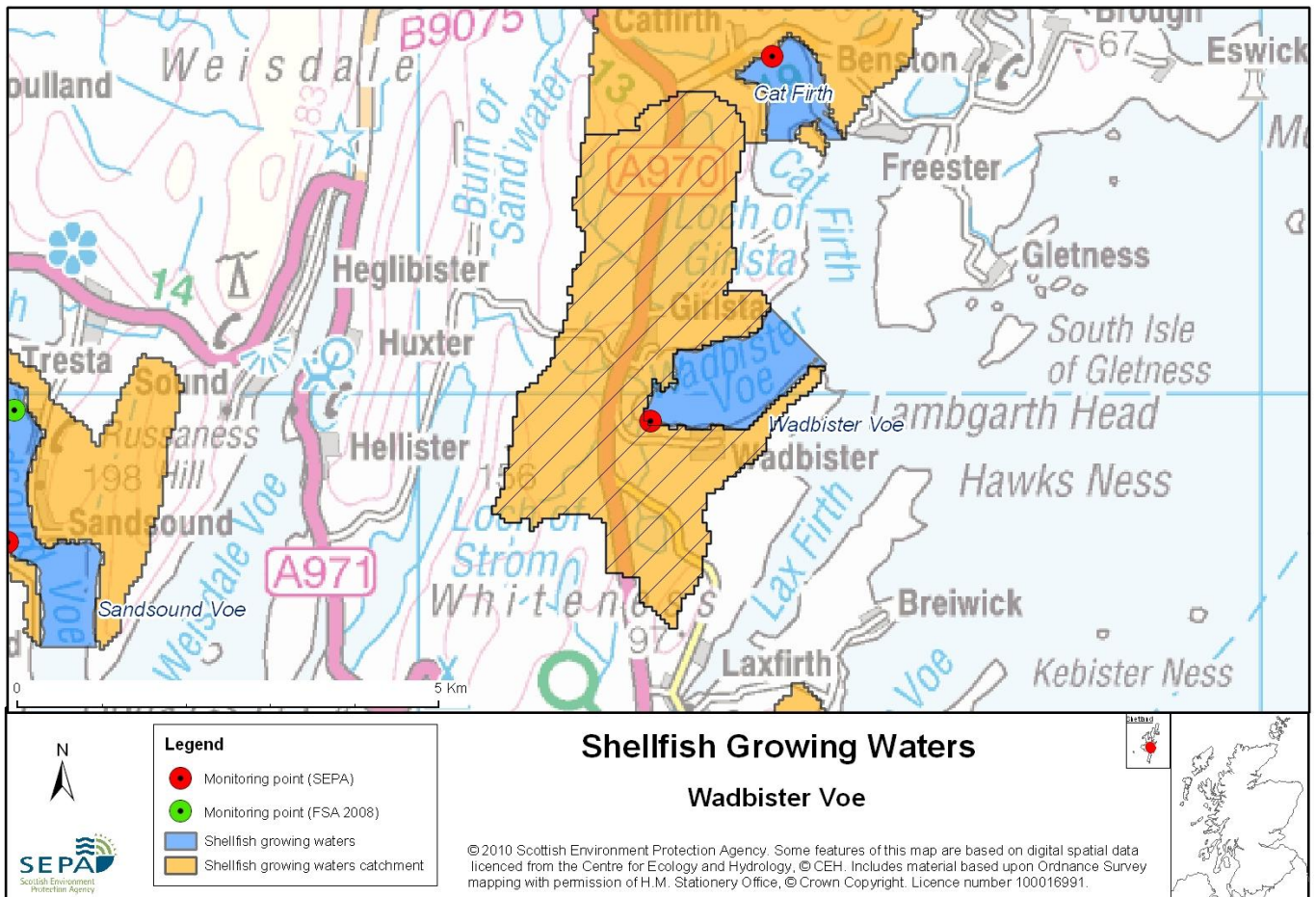


103 Wadbister Voe



Name	Wadbister Voe
Report Reference Number	103
WFD Code	UKS79923103
Local Information	An area inshore of a line drawn between HU4419151009 and HU4483850357 and extending to MHWS.
Designated Area (km²)	1.59
Year of Designation	2002
Sampling Points	Wadbister Voe Mussel Site (From July 2003) - HU 42770 49680
Commencement of Monitoring	2003

103.1 Commercial Shellfish Interests

Wadbister Voe was designated as a Shellfish Harvesting Area by the Food Standards Agency (FSA) for the production of Common mussels (*Mytilus edulis*) but was de-designated in 2009, there is no classification available.

FSA did not conduct a sanitary survey in Wadbister Voe.

For more information on Food Standards Agency Classification please visit:
<http://www.food.gov.uk/scotland/safetyhygienescot/shellmonitorscot/shellclassesscot/>

103.2 Bathymetric Information

An inlet on the Shetland mainland, Wadbister Voe is located on the island's eastern coastline 8 km north of Lerwick and adjacent to the settlement of Girsta. This sheltered sea loch has a maximum depth of approximately 29m and is 2km in length.

There are no morphological pressures on the waters.

103.3 Conservation Designations

North of this Shellfish Water is Cat Firth ([UKS7992339](#)) designated Shellfish Water and south of this site is Dales Voe ([UKS79923112](#)) Shellfish Area, part of which is also designated as a Shellfish Harvesting Area by the Food Standards Agency (FSA)

Sites of Special Scientific Interest (SSSI) - Loch of Girsta

Designated 10/05/1983 for fish species (Arctic charr (*Salvelinus alpinus*)) and Standing open water and canals – mesotrophic loch

http://gateway.snh.gov.uk/portal/page?_pageid=53,910305,53_910314&_dad=portal&_schema=PORTAL&PA_CODE=1030

Sites of Special Scientific Interest (SSSI) - Sandwater

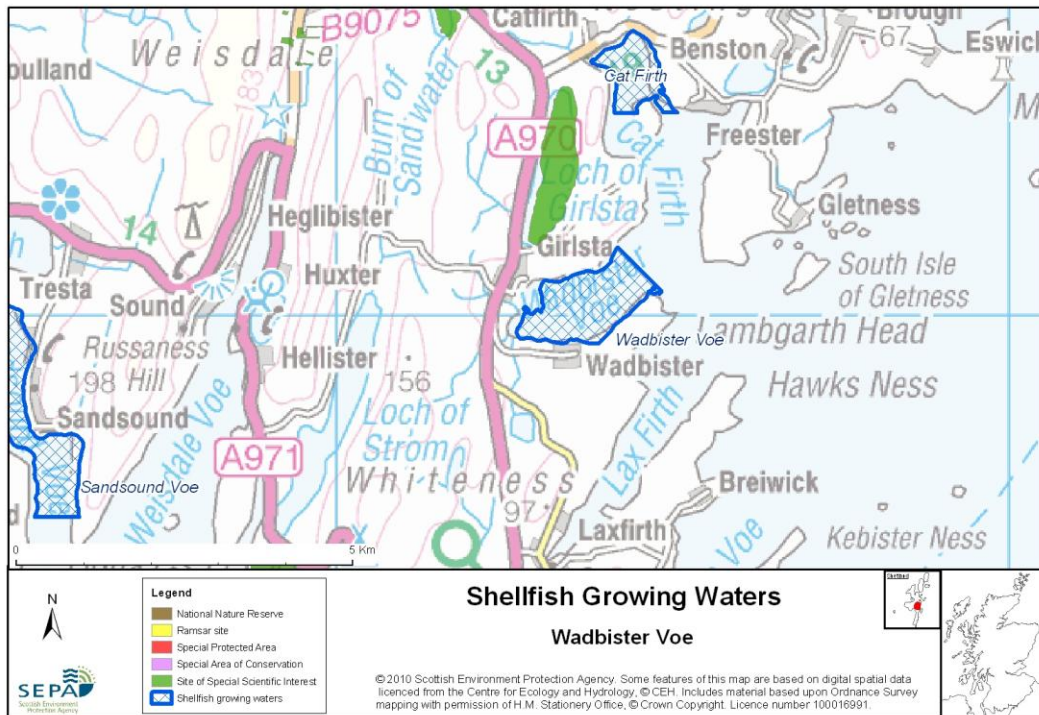
Designated 01/12/1983 for Fen, marsh and swamp (Wetland) and Standing open water and canals – mesotrophic loch

http://gateway.snh.gov.uk/portal/page?_pageid=53,910305,53_910314&_dad=portal&_schema=PORTAL&PA_CODE=1406

Sites of Special Scientific Interest (SSSI) - Catfirth

Designated 27/06/1984 for Broad-leaved, mixed and yew woodland

http://gateway.snh.gov.uk/portal/page?_pageid=53,910305,53_910314&_dad=portal&_schema=PORTAL&PA_CODE=347



103.4 Topography and Land Use – Potential Diffuse Pollution Sources

The land around the designated area is of blanket bog, improved pasture heather moorland and semi-natural grasslands.

Four minor freshwaters discharge into the designated area, none of which are monitored by SEPA but all are considered to be of at least good quality. One of these drains the Loch of Vatster which receives the effluent discharges from Vatster waste transfer station and from Vatster Quarry (authorisation recently revoked).

Widespread sheep rearing in the catchment area for the designated water is the main source of diffuse pollution.

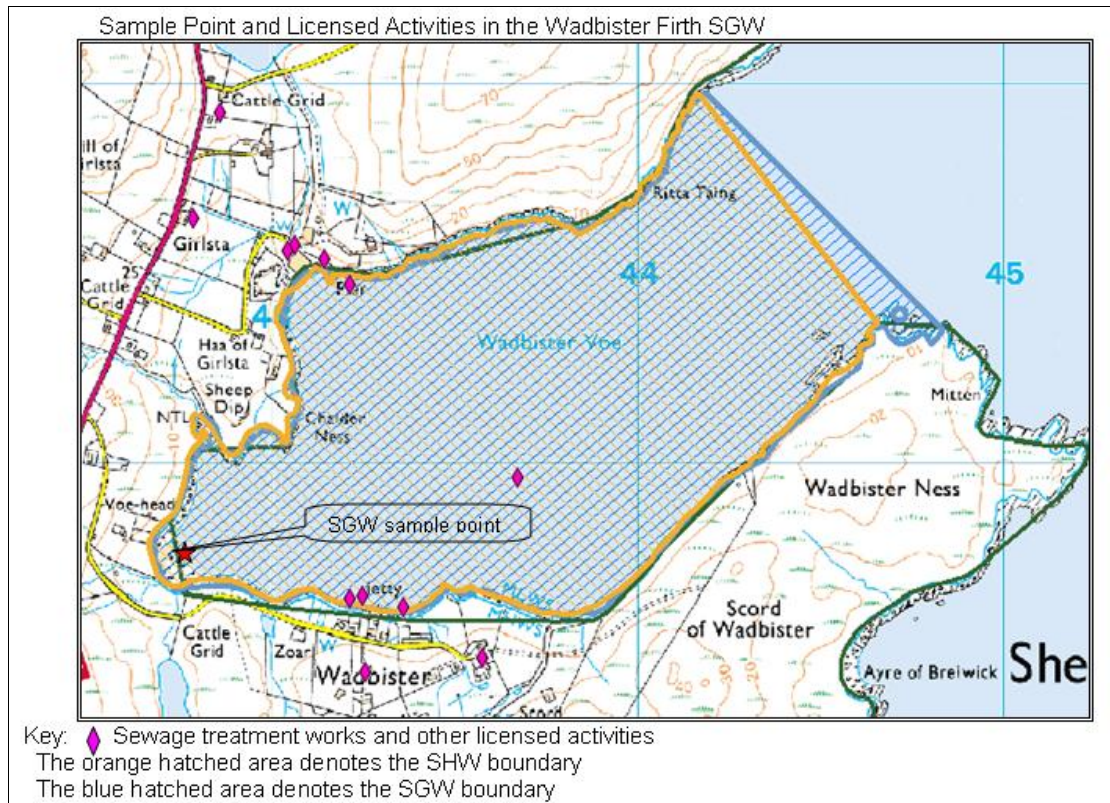
Pressures associated with this water-body come from diffuse sources i.e. from sewage disposal and from livestock farming. Bacterial source tracking may be required to verify the origin of the diffuse source pollution.

103.5 Point Source Discharge

Sewage related discharges to the designated area are limited to those from private septic tanks. A land based smolt hatchery discharges to the Girsta Burn 100m up stream from the designated water.

There is one fish farm within the designated area with a consented biomass of 800 tonnes. There are two further fish farms within 2km of the designated area, with a combined consented biomass of 2750 tonnes. There is also a fish farm shore base.

Type	Name	Treatment	Consent No.	NGR	Additional Information
Industrial	Millbrook Fisheries	-	CAR/L/1002228	HU4306 650590	-
Category	Name		Consent No.	NGR	Biomass (t)
Fish Farm	Wadbister Voe		CAR/L/1004044	HU43504980	800



103.6 Compliance Monitoring Regime

Site	Current Monitoring	Comments
Wadbister Voe	<ul style="list-style-type: none"> Quarterly for Sal, DO, pH, temperature Quarterly for faecal coliforms in mussels Once every three years for metals and organohalogens in mussels 	<ul style="list-style-type: none"> Sampled by SEPA Sampled by SEPA

103.7 Compliance History

UKS79923103 - Wadbister Voe				
	Compliance history for Waters and Biota, excluding faecal coliforms data			Compliance history for faecal coliforms
Year	Overall Result	Imperative	Guideline	Guideline
2003	Pass	Pass	Pass	Pass
2004	Pass	Pass	Pass	Fail
2005	Pass	Pass	Fail ^{1,2}	Pass
2006	Pass	Pass	Pass	Pass
2007	Pass	Pass	Pass	Pass
2008	Pass	Pass	Pass	No Data
2009	Pass	Pass	Fail ³	Pass
2010	Pass	Pass	Pass	Pass

¹Failure relates to a single result for copper in mussel flesh of 20.23 mg/kg which breaches the Guideline standard of 15 mg/kg.

²Failure relates to a single result for HCH-G in mussel flesh of 27.4 ng/g which breaches the Guideline standard of 10 ng/g but complies with the Imperative standard of 30 ng/g.

³Failure of Guideline DO saturation in 2009 due to failure of DO probe.

The waters complied with the guideline standard for faecal coliforms in 2005 to 2010 with the exception of 2008 as there were no results available.

103.8 Future Monitoring

The monitoring regime (103.6 Compliance Monitoring Regime) will be followed. In the event of any chemistry parameter failing to meet any EQS, the site will be revisited and resampled for the failed parameter.

Samplers are asked to identify any evidence of visible harm to the shellfish population at the site.

103.9 Improvement Actions

There are no improvement actions planned for this designated Shellfish Water.

WFD Objectives

Under the Water Framework Directive, the target objectives expect this shellfish water to Pass by 2015 (first River Basin Management Plan Cycle) for Imperative and Guideline Shellfish Growing Water Standards, with high confidence.

Objective	First Cycle 2015	Confidence	Second Cycle 2021	Confidence	Third Cycle 2027	Confidence
Imperative Shellfish Growing Waters Standard	Pass by 2015	High	Pass by 2021	High	Pass by 2027	High
Guideline Shellfish Growing Waters Standard	Pass by 2015	High	Pass by 2021	High	Pass by 2027	High

103.10 Summary of Actions

Action	Deadline
No improvement actions currently planned.	N/A