



# Ramsar Information Sheet

Published on 6 April 2017

Update version, previously published on : 1 January 2002

## Sweden Kilsviken-Åråsviken



Designation date	12 June 1989
Site number	434
Coordinates	59°02'44"N 14°02'41"E
Area	9 046,00 ha

## Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

## 1 - Summary

### Summary

The site Kilsviken-Åråsviken is situated in the northeast corner of lake Vänern, the largest lake in Sweden. It consists of three large bays (Kilsviken, Kolstrandsviken and Åråsviken) with numerous islands, the river Gullspångsälven and the shoreline around the bays. The landscape is a mosaic of open water, reed-areas, forested wetlands and grazed wetlands.

The site is very important for migrating and breeding birds. More than 250 different bird species have been reported from the site. About 60 species of wetland birds and waterfowls regularly use the area. About 25 bird species that is nationally redlisted is found in the area. The site is also an important spawning-site for fish.

## 2 - Data & location

### 2.1 - Formal data

#### 2.1.1 - Name and address of the compiler of this RIS

##### Compiler 1

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##### Compiler 2

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#### 2.1.2 - Period of collection of data and information used to compile the RIS

From year	2002
To year	2015

#### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Kilsviken-Åråsviken
Unofficial name (optional)	Kilsviken-Åråsviken (bay)

#### 2.1.4 - Changes to the boundaries and area of the Site since its designation or earlier update

(Update) A. Changes to Site boundary	Yes <input checked="" type="radio"/> No <input type="radio"/>
(Update) The boundary has been delineated more accurately	<input checked="" type="checkbox"/>
(Update) The boundary has been extended	<input type="checkbox"/>
(Update) The boundary has been restricted	<input type="checkbox"/>
(Update) B. Changes to Site area	the area has decreased
(Update) The Site area has been calculated more accurately	<input checked="" type="checkbox"/>
(Update) The Site has been delineated more accurately	<input checked="" type="checkbox"/>
(Update) The Site area has increased because of a boundary extension	<input checked="" type="checkbox"/>
(Update) The Site area has decreased because of a boundary restriction	<input checked="" type="checkbox"/>

#### 2.1.5 - Changes to the ecological character of the Site

(Update) 6b i. Has the ecological character of the Ramsar Site (including applicable Criteria) changed since the previous RIS?	Yes (actual)
(Update) Are the changes	Positive <input checked="" type="radio"/> Negative <input type="radio"/> Positive & Negative <input type="radio"/>
(Update) Positive %	10
(Update) No information available	<input type="checkbox"/>
(Update) Changes resulting from causes operating within the existing boundaries?	<input checked="" type="checkbox"/>

(Update) Changes resulting from causes operating beyond the site's boundaries?

(Update) Changes consequent upon site boundary reduction alone (e.g., the exclusion of some wetland types formerly included within the site)?

(Update) Changes consequent upon site boundary increase alone (e.g., the inclusion of different wetland types in the site)?

(Update) Please describe any changes to the ecological character of the Ramsar Site, including in the application of the Criteria, since the previous RIS for the site.

Increased legal protection, two nature reserves: Dyrön (2006) and Värmlands Säby (2003).

The boundary of the site has been adjusted to boundaries of nature reserves, where possible due to conservation values and corrected in a way so that built-up areas, arable land and some water area is excluded. There is a large extension in the south-east around a channel where arable land has been restored to wetland.

(Update) Is the change in ecological character negative, human-induced AND a significant change (above the limit of acceptable change) Yes

## 2.2 - Site location

### 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<1 file(s) uploaded>

Former maps

### 2.2.2 - General location

a) In which large administrative region does the site lie?

b) What is the nearest town or population centre?

### 2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries? Yes  No

b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party? Yes  No

### 2.2.4 - Area of the Site

Official area, in hectares (ha):

Area, in hectares (ha) as calculated from GIS boundaries

### 2.2.5 - Biogeography

#### Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
WWF Terrestrial Ecoregions	Sarmatic mixed forest PA0436
Other scheme (provide name below)	Boreonemoral
Freshwater Ecoregions of the World (FEOW)	Ecoregion 406 Northern Baltic drainages
EU biogeographic regionalization	Boreal

#### Other biogeographic regionalisation scheme

Boreonemorale zone according to 1975, ICUN, Man and Biosphere programme, proj 8 and Nordiska ministerrådet 1977, Naturgeografisk regionindelning av Norden NU B 1977:34

### 3 - Why is the Site important?

#### 3.1 - Ramsar Criteria and their justification

- Criterion 1: Representative, rare or unique natural or near-natural wetland types

Hydrological services provided	The site is important for storage, recycling, processing and acquisition of nutrients. It is also important for the provision of water that is processed and becomes drinking water.
Other ecosystem services provided	Parts of the site have grazed areas that are important for farmers that keep cattle,
Other reasons	The site has representative examples of a near-natural wetland types (freshwater lake and river) in the EU Boreal region.

- Criterion 2 : Rare species and threatened ecological communities

- Criterion 3 : Biological diversity

Justification	Support particular elements of biological diversity that are characteristic of the EU Boreal region. It's an important breeding area for water birds. The site is also an important staging area for migratory water birds.
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- Criterion 4 : Support during critical life cycle stage or in adverse conditions

- Criterion 7 : Significant and representative fish

Justification	The area is an important site for many fish species, from many different taxa. The composition of species is rich and represents the not so species rich ecoregion Northern Baltic drainages. Several fishes have their reproduction areas at the site; in the river or in the shallow waters of the bays. There are also some fish species at the site that have a particular genetic composition for example a local genetically unique population of <i>Salmo salar</i> , (Gullspång salmon) and the <i>Coregonus albula</i> morphotype <i>albula</i> . <i>Osmerus eperlanus</i> is the main prey for the predatory fish species at the site.
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- Criterion 8 : Fish spawning grounds, etc.

Justification	The area is an important spawning ground for Salmon <i>trutta</i> and a local subspecies of <i>Salmo salar</i> .
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#### 3.2 - Plant species whose presence relates to the international importance of the site



















Scientific name	Common name	Criterion 2	Criterion 3	Criterion 4	IUCN Red List	CITES Appendix I	Other status	Justification
<i>Bidens radiata</i> 		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	Swedish Red List 2015 (VU)	

Criterion 2: For all species, their status in the Swedish Red List and general information for that classification as well as their distribution etc can be found at <http://artfakta.artdatabanken.se/>.

Criteria 2 and 3: Observation of the species can be found in the Swedish database for observations <http://www.artportalen.se/>.

## 3.3 - Animal species whose presence relates to the international importance of the site

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence <sup>1)</sup>	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
<b>Birds</b>																		
CHORDATA/ AVES	<i>Acrocephalus arundinaceus</i>	Great Reed Warbler	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT)	Breeding habitats. See text box below the table.
CHORDATA/ AVES	<i>Anas acuta</i>	Northern Pintail	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU)	Staging during migration. See text box below the table.
CHORDATA/ AVES	<i>Anas crecca</i>	Eurasian Teal; Green-winged Teal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging during migration, some breeding pairs. See text box below the table.
CHORDATA/ AVES	<i>Anas penelope</i>	Eurasian Wigeon	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging during migration. See text box below the table.
CHORDATA/ AVES	<i>Anas querquedula</i>	Garganey	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU)	Staging during migration, some breeding pairs. See text box below the table.
CHORDATA/ AVES	<i>Anser anser</i>	Greylag Goose	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging during migration, some breeding pairs. See text box below the table.
CHORDATA/ AVES	<i>Aythya ferina</i>	Common Pochard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU)	Staging during migration. See text box below the table.
CHORDATA/ AVES	<i>Botaurus stellaris</i>	Eurasian Bittern	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Suitable breeding habitats. See text box below the table.
CHORDATA/ AVES	<i>Carpodacus erythrinus erythrinus</i>	Common rosefinch ssp.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (VU).	See text box below the table.
CHORDATA/ AVES	<i>Circus aeruginosus</i>	Western Marsh Harrier	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Staging and foraging. See text box below the table.
CHORDATA/ AVES	<i>Cygnus cygnus</i>	Whooper Swan	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Staging during migration, some breeding pairs. See text box below the table.
CHORDATA/ AVES	<i>Grus grus</i>	Common Crane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Staging during migration, some breeding pairs. See text box below the table.
CHORDATA/ AVES	<i>Haliaeetus albicilla</i>	White-tailed Eagle	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EC Birds Directive Annex I.	Foraging. See text box below the table.
CHORDATA/ AVES	<i>Mergus merganser</i>	Common Merganser	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Staging during migration. See text box below the table.
CHORDATA/ AVES	<i>Pandion haliaetus</i>	Osprey, Western Osprey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Foraging. See text box below the table.
CHORDATA/ AVES	<i>Panurus biarmicus</i>	Bearded Reedling	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (NT).	Suitable habitats for foraging and breeding. See text box below the table.
CHORDATA/ AVES	<i>Philomachus pugnax</i>	Ruff	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Swedish Red List 2015 (EN). EC Birds Directive Annex I.	Staging and displaying. See text box below the table.
CHORDATA/ AVES	<i>Sterna hirundo</i>	Common Tern	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	EC Birds Directive Annex I.	Staging during migration and breeding. See text box below the table.
<b>Fish, Mollusc and Crustacea</b>																		

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence 1)	IUCN Red List	GITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
CHORDATA/ ACTINOPTERYGII	 <i>Coregonus albula</i>	European sisco	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	The morphotype "Coregonus albula morphotype albula".	See text box below the table and in section 3.1 criterion 7.
CHORDATA/ ACTINOPTERYGII	 <i>Esox lucius</i>	Common Pike	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Reproduction habitats. See text box below the table.
CHORDATA/ ACTINOPTERYGII	 <i>Leuciscus aspius</i>	Schied	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	EC Habitats Directive Annex II.	Reproduction habitat. See text box below the table and under criteria 7.
CHORDATA/ ACTINOPTERYGII	 <i>Lota lota</i>	Burbot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		See text box below the table and in section 3.1 criterion 7.
CHORDATA/ ACTINOPTERYGII	 <i>Osmerus eperlanus</i>	European Smelt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		See text box below the table and in section 3.1 criterion 7.
CHORDATA/ ACTINOPTERYGII	 <i>Perca fluviatilis</i>	European perch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		See text box below the table and in section 3.1 criterion 7.
CHORDATA/ ACTINOPTERYGII	 <i>Salmo salar</i>	Salmon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	EC Habitats Directive Annex II. Unique genetic population, "Gullspång salmon".	Migration route, leks. See text box below the table and under criteria 7 and 8.
CHORDATA/ ACTINOPTERYGII	 <i>Salmo trutta</i>	Brown trout	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Migration route, leks. See text box below the table and under criteria 7 and 8.
CHORDATA/ ACTINOPTERYGII	 <i>Sander lucioperca</i>	Pikeperch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		See text box below the table and in section 3.1 criterion 7.
<b>Others</b>																		
CHORDATA/ MAMMALIA	 <i>Castor fiber</i>	Eurasian Beaver	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>		Foraging, reproduction and suitable habitat for beaver dams. See text box below the table.

1) Percentage of the total biogeographic population at the site

Criterion 2: For all species, their status in the Swedish Red List and general information for that classification as well as their distribution etc can be found at <http://artfakta.artdatabanken.se/>.

Criteria 2, 3, 7 and 8: Observation of the species can be found in the Swedish database for observations <http://www.artportalen.se/>.

### 3.4 - Ecological communities whose presence relates to the international importance of the site

<no data available>

## 4 - What is the Site like? (Ecological character description)

### 4.1 - Ecological character

The site Kilsviken-Åråsviken is situated in the northeast corner of lake Vänern, the largest lake in Sweden. It consists of three large bays (Kilsviken, Kolstrandsviken and Åråsviken) with numerous islands, the river Gullspångsälven and the shoreline around the bays. The landscape is a mosaic of open water, reed-areas, forested wetlands and grazed wetlands.

The bay Kilsviken is shallow, nutrient-rich and has lush submerged vegetation. It is surrounded by broad belts of Phragmites and Scirpus, giving way to partially grazed meadows with stands of Carex. The bay Kolstrandsviken is less rich in nutrients and supports limited areas of Phragmites. The inner section of the bay Åråsviken consists of extensive stands of Phragmites and small, forested islands, partly submerged terminal moraines and glacio-fluvial ridges.

The site is very important for migrating and breeding birds. More than 250 different bird species have been reported from the site. About 60 species of wetland birds and waterfowls regularly use the area. About 25 bird species that are nationally redlisted are found in the area. The site is also an important spawning-site for fish.

### 4.2 - What wetland type(s) are in the site?

#### Inland wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Fresh water > Flowing water >> Mt Permanent rivers/ streams/ creeks		2	40	Representative
Fresh water > Lakes and pools >> O: Permanent freshwater lakes		1	5000	Representative
Fresh water > Marshes on inorganic soils >> Tp: Permanent freshwater marshes/ pools		0		Representative
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		4	5	Representative

#### Human-made wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
4: Seasonally flooded agricultural land		3	20	Representative

#### Other non-wetland habitat

Other non-wetland habitats within the site	Area (ha) if known
Natural grassland	
Arable land	
Deciduous forest	
Islands of bare rock in the archipelago	
Coniferous forest	

### 4.3 - Biological components

#### 4.3.1 - Plant species

<no data available>

#### 4.3.2 - Animal species

<no data available>

### 4.4 - Physical components



4.4.1 - Climate

Climatic region	Subregion
D: Moist Mid-Latitude climate with cold winters	Dfb: Humid continental (Humid with severe winter, no dry season, warm summer)

4.4.2 - Geomorphic setting

a) Minimum elevation above sea level (in metres)

a) Maximum elevation above sea level (in metres)

- Entire river basin
- Upper part of river basin
- Middle part of river basin
- Lower part of river basin
- More than one river basin
- Not in river basin
- Coastal

Please name the river basin or basins. If the site lies in a sub-basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.

The site is part of the large catchment area river Göta älv- lake Vänern- river Klarälven- river Trysil elva. The catchment area has its estuary in the Kattegatt. The site is situated in the lake Vänern. The river Gullspångsälven that is part of the site is the lowest part of one of the sub-basins, (river Gullspångsälven-river Letälven-river Svartälven) of that catchment area.

4.4.3 - Soil

Mineral

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

No available information

Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)? Yes  No

4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually permanent water present	

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Water inputs from surface water	<input checked="" type="checkbox"/>	No change

Water destination

Presence?	Changes at RIS update
To downstream catchment	No change

Stability of water regime

Presence?	Changes at RIS update
Water levels largely stable	No change

Please add any comments on the water regime and its determinants (if relevant). Use this box to explain sites with complex hydrology.

The water regime in Lake Vänern is regulated, do also see text under 5.2.1

4.4.5 - Sediment regime

Sediment regime unknown

<no data available>

4.4.6 - Water pH

Circumneutral (pH: 5.5-7.4)

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Unknown

4.4.7 - Water salinity

Fresh (<0.5 g/l)

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Unknown

4.4.8 - Dissolved or suspended nutrients in water

Eutrophic

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Mesotrophic

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Oligotrophic

(Update) Changes at RIS update No change  Increase  Decrease  Unknown

Unknown

4.4.9 - Features of the surrounding area which may affect the Site

Please describe whether, and if so how, the landscape and ecological characteristics in the area surrounding the Ramsar Site differ from the i) broadly similar  ii) significantly different  site itself.

Surrounding area has greater urbanisation or development

Surrounding area has higher human population density

Surrounding area has more intensive agricultural use

Surrounding area has significantly different land cover or habitat types

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Fresh water	Drinking water for humans and/or livestock	Medium
Wetland non-food products	Livestock fodder	Medium
Wetland non-food products	Timber	Medium

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Picnics, outings, touring	Low
Recreation and tourism	Recreational hunting and fishing	Medium

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganisms, the genes they contain, and the ecosystems of which they form a part	High
Nutrient cycling	Storage, recycling, processing and acquisition of nutrients	High

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site? Yes  No  Unknown

4.5.2 - Social and cultural values

i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland

ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland

iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples

iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological character of the wetland

<no data available>

#### 4.6 - Ecological processes

<no data available>

## 5 - How is the Site managed? (Conservation and management)

### 5.1 - Land tenure and responsibilities (Managers)

#### 5.1.1 - Land tenure/ownership

##### Public ownership

Category	Within the Ramsar Site	In the surrounding area
National/Federal government	<input checked="" type="checkbox"/>	<input type="checkbox"/>

##### Private ownership

Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

##### Other

Category	Within the Ramsar Site	In the surrounding area
Commoners/customary rights	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Provide further information on the land tenure / ownership regime (optional):

The land is mostly owned by private owners, parts of the nature reserves are owned by the state.

#### 5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for managing the site:

Länsstyrelsen i Värmlands län (County Administrative Board of Värmland).  
Länsstyrelsen i Västra Götalands län (County Administrative Board of Västra Götaland).

Provide the name and title of the person or people with responsibility for the wetland:

Kontaktperson Ramsarområdet Kilsviken-Åråsviken

Postal address:

Länsstyrelsen Värmland, 651 86 Karlstad, Sweden.  
Länsstyrelsen Västra Götaland, 403 40 Göteborg, Sweden (vastragotaland@lansstyrelsen.se)

E-mail address:

varmland@lansstyrelsen.se

## 5.2 - Ecological character threats and responses (Management)

### 5.2.1 - Factors (actual or likely) adversely affecting the Site's ecological character

#### Human settlements (non agricultural)

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Tourism and recreation areas	Low impact	High impact	<input checked="" type="checkbox"/>	unknown	<input type="checkbox"/>	No change
Housing and urban areas	Low impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change
Unspecified development	Medium impact	Medium impact	<input checked="" type="checkbox"/>	unknown	<input checked="" type="checkbox"/>	No change

#### Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Drainage		High impact	<input checked="" type="checkbox"/>	increase	<input checked="" type="checkbox"/>	increase

#### Biological resource use

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Hunting and collecting terrestrial animals	Low impact	High impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	unknown
Fishing and harvesting aquatic resources	Low impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	unknown

#### Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Recreational and tourism activities	Low impact	High impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change

#### Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Household sewage, urban waste water	Low impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change
Agricultural and forestry effluents	Medium impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change
Industrial and military effluents	Low impact	Medium impact	<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Please describe any other threats (optional):

The change of water regulation of lake Vänern in the last century is a threat. Before, and in the early 1900s the amplitude of the water level varied with about two meters, nowadays the amplitude is merely one meter. The reduced variation between seasonal high and low water means increasing growth of trees and bushes in areas that earlier were kept open by, among other things, the movement of the ice during winter. The shallow bays and open shorelines is rapidly colonised by trees and bushes.

The "unspecified development" listed above is referring to expansion of existing exploitations such as marinas and docks. Expansions of these would increase the risk of disturbance to breeding and staging birds due to an increased activity in the area. It may also increase the needs of dredging and reed cutting in nearby channels.

## 5.2.2 - Legal conservation status

Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	5 Natura sites that are SCI and SPA and 2 sites that are SPA only. See below, under national legislation.		partly

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Natura 2000 SCI and SPA(1)	Nötön-Åråsviken	<a href="http://www.lansstyrelsen.se/varmland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura2000/bevarandeplaner/KRI010_Notonarasviken.pdf">http://www.lansstyrelsen.se/varmland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura2000/bevarandeplaner/KRI010_Notonarasviken.pdf</a>	partly
Natura 2000 SCI and SPA(2)	Inre Kilsviken	<a href="http://www.lansstyrelsen.se/varmland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura2000/bevarandeplaner/KRI004_InreKilsviken.pdf">http://www.lansstyrelsen.se/varmland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura2000/bevarandeplaner/KRI004_InreKilsviken.pdf</a>	partly
Natura 2000 SCI and SPA(3)	Värmlands-Säby	<a href="http://www.lansstyrelsen.se/varmland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura2000/bevarandeplaner/KRI248_Varmlands_Saby.pdf">http://www.lansstyrelsen.se/varmland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura2000/bevarandeplaner/KRI248_Varmlands_Saby.pdf</a>	partly
Natura 2000 SCI and SPA(4)	Gullspångsälven	<a href="http://www.lansstyrelsen.se/vastragotaland/SiteCollectionDocuments/Sv/djur-och-natur/skyddad-natur/natura-2000/bevarandeplaner/Gullspang/gullspangsalven-se0540213.pdf">http://www.lansstyrelsen.se/vastragotaland/SiteCollectionDocuments/Sv/djur-och-natur/skyddad-natur/natura-2000/bevarandeplaner/Gullspang/gullspangsalven-se0540213.pdf</a>	partly
Natura 2000 SCI and SPA(5)	Åråsviken-Vallholmen	<a href="http://www.lansstyrelsen.se/vastragotaland/SiteCollectionDocuments/Sv/djur-och-natur/skyddad-natur/natura-2000/bevarandeplaner/Gullspang/arasviken-vallholmen-se0540120.pdf">http://www.lansstyrelsen.se/vastragotaland/SiteCollectionDocuments/Sv/djur-och-natur/skyddad-natur/natura-2000/bevarandeplaner/Gullspang/arasviken-vallholmen-se0540120.pdf</a>	partly
Natura 2000 SPA(1)	Dyrön	<a href="http://www.lansstyrelsen.se/varmland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura2000/bevarandeplaner/KRI250_Dyron.pdf">http://www.lansstyrelsen.se/varmland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura2000/bevarandeplaner/KRI250_Dyron.pdf</a>	partly
Natura 2000 SPA(2)	Åråsvikens norr skärgård	<a href="http://www.lansstyrelsen.se/varmland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura2000/bevarandeplaner/KRI249_Arasvikens_norra_skargard.pdf">http://www.lansstyrelsen.se/varmland/SiteCollectionDocuments/sv/djur-och-natur/skyddad-natur/natura2000/bevarandeplaner/KRI249_Arasvikens_norra_skargard.pdf</a>	partly
Nature reserve (1)	Nötön-Åråsviken	<a href="http://www.lansstyrelsen.se/varmland/Sv/djur-och-natur/skyddad-natur/naturreservat/kristinehamn/notonarasviken/Pages/index.aspx">http://www.lansstyrelsen.se/varmland/Sv/djur-och-natur/skyddad-natur/naturreservat/kristinehamn/notonarasviken/Pages/index.aspx</a>	partly
Nature reserve (2)	Inre Kilsviken	<a href="http://www.lansstyrelsen.se/varmland/Sv/djur-och-natur/skyddad-natur/naturreservat/kristinehamn/inre-kilsviken/Pages/index.aspx">http://www.lansstyrelsen.se/varmland/Sv/djur-och-natur/skyddad-natur/naturreservat/kristinehamn/inre-kilsviken/Pages/index.aspx</a>	partly
Nature reserve (3)	Dyrön	<a href="http://www.lansstyrelsen.se/varmland/Sv/djur-och-natur/skyddad-natur/naturreservat/kristinehamn/dyron/Pages/index.aspx">http://www.lansstyrelsen.se/varmland/Sv/djur-och-natur/skyddad-natur/naturreservat/kristinehamn/dyron/Pages/index.aspx</a>	partly
Nature reserve (4)	Värmlands-Säby	<a href="http://www.lansstyrelsen.se/varmland/Sv/djur-och-natur/skyddad-natur/naturreservat/kristinehamn/varmlands-saby/Pages/index.aspx">http://www.lansstyrelsen.se/varmland/Sv/djur-och-natur/skyddad-natur/naturreservat/kristinehamn/varmlands-saby/Pages/index.aspx</a>	partly
Nature reserve (5)	Vallholmen	<a href="http://www.lansstyrelsen.se/vastragotaland/Sv/djur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/gullspang/varholmen/Pages/index.aspx">http://www.lansstyrelsen.se/vastragotaland/Sv/djur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/gullspang/varholmen/Pages/index.aspx</a>	partly
Nature reserve (6)	Gullspångsälven	<a href="http://www.lansstyrelsen.se/vastragotaland/Sv/djur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/gullspang/gullspangsalven/Pages/index.aspx">http://www.lansstyrelsen.se/vastragotaland/Sv/djur-och-natur/skyddad-natur/naturreservat/lanets-naturreservat/gullspang/gullspangsalven/Pages/index.aspx</a>	partly

## Non-statutory designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	SE035 Bay of Kilsviken	<a href="http://datazone.birdlife.org/site/factsheet/bay-of-kilsviken-iba-sweden">http://datazone.birdlife.org/site/factsheet/bay-of-kilsviken-iba-sweden</a>	partly

5.2.3 - IUCN protected areas categories (2008)

- Ia Strict Nature Reserve
- Ib Wilderness Area: protected area managed mainly for wilderness protection
- II National Park: protected area managed mainly for ecosystem protection and recreation
- III Natural Monument: protected area managed mainly for conservation of specific natural features
- IV Habitat/Species Management Area: protected area managed mainly for conservation through management intervention
- V Protected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation
- VI Managed Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems

5.2.4 - Key conservation measures

Legal protection

Measures	Status
Legal protection	Implemented

Habitat

Measures	Status
Habitat manipulation/enhancement	Partially implemented
Catchment management initiatives/controls	Partially implemented

Species

Measures	Status
Threatened/rare species management programmes	Partially implemented

Human Activities

Measures	Status
Communication, education, and participation and awareness activities	Partially implemented
Regulation/management of recreational activities	Partially implemented

Other:

Some of the farming land is embanked and the pumps are run to make the most suitable circumstance for the breeding and staging birds. In the open areas bordering to the water there is a bird sanctuary with restriction for entering the site during the breeding season.

5.2.5 - Management planning

Is there a site-specific management plan for the site? Yes

Has a management effectiveness assessment been undertaken for the site? Yes  No

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning processes with another Contracting Party? Yes  No

Please indicate if a Ramsar centre, other educational or visitor facility, or an educational or visitor programme is associated with the site:

No such facilities exist.

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No, but restoration is needed

Further information

Planned measures are cutting reeds of Phragmites and Carex. There are also plans to make small islands with suitable habitats for breeding.

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Plant species	Proposed
Birds	Implemented



## 6 - Additional material

### 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

ArtDatabanken, SLU, 2015. Rödlistade arter i Sverige. Uppsala.

Muntlig referens: Landgren Thomas, 2015, Fågelförekomst i Ramsarområdet.

Axelsson, H. 1982 "För vassberoende fåglar värdefulla lokaler i Vänern inom Värmlands län" Rapport 1982:1 Länsstyrelsen Värmland

Neuendorf, M. 1978. "Vegetationskarta över Kilsviken, Vänern" Rapport 1978:3 Länsstyrelsen Värmland

Landgren, T 1978. "Inventering av de våtmarksberoende fågelarternas förekomst och fördelning vid Inre Kilsviken, Kristinehamns kommun" Rapport 1978:1, Länsstyrelsen Värmland

Vänerns vattenvårdsförbund, 2016. Vänern - årsskrift 2015

#### 6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

<no file available>

ii. a detailed Ecological Character Description (ECD) (in a national format)

<no file available>

iii. a description of the site in a national or regional wetland inventory

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<2 file(s) uploaded>

vi. other published literature

<1 file(s) uploaded>

#### 6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Grazed wetlands of nature reserve Inre Kilsviken. ( Länsstyrelsen Värmland, 10-06-2012 )

#### 6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 1989-06-12