

# Ramsar Information Sheet

Published on 11 July 2017 Update version, previously published on : 1 January 2009

# Sweden Tåkern



Designation date 5 December 1974
Site number 23
Coordinates 58°21'07"N 14°48'47"E
Area 5 421,00 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

Lake Tåkern is one of the most important nesting and feeding grounds in Northern Europe for many species of birds. The shallow lake (mean depth is only 0.8 m) is normally rich in submerged water plants and rich in fish-populations. The Lake surface is approx. 45 sqkm and the surrounding reed beds of about 15 sqkm is one of the largest in Europe. During recent years a total of 270 species of birds have been seen at the lake and over a hundred nest here: e.g., Black Tern, Bittern, Marsh Harrier and Great Reed Warbler.

The wet meadows at Lake Tåkern have been created by years of grazing and haymaking and extend to a total of 450 hectares. As these meadows are rich in lime they have a very diversified flora. Birdseye Primrose and orchids such as the Fly, Early Marsh and Musk Orchids flourish here. In order to preserve their biodiversity and to prevent overgrowth it is important to keep the meadows constantly grazed and mowed. Parts of the surroundings are wet forests of great importance. The area is a well visited wetland with the new Visitor centre, Naturum Tåkern, as the centre of information and recreation.

# 2 - Data & location

# 2.1 - Formal data

2.1	.1	-	Name	and	addre	ess of	f the	comp	iler of	this	RIS
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Comp	

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Pariod of collection of data and	d information used to compile the PIS

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)	Tåkem
Spanish)	
Unofficial name (optional)	Tåkem (lake)

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   No ○	
(Update) The boundary has been delineated more accurately ☑	
<sup>(Update)</sup> The boundary has been extended <b>☑</b>	
<sup>(Update)</sup> The boundary has been restricted <b>☑</b>	
(Update) B. Changes to Site area the area has decreased	
<sup>(Update)</sup> The Site area has been calculated more accurately <b>☑</b>	
(Update) The Site has been delineated more accurately €	
(Update) The Site area has increased because of a boundary extension    ✓	
<sup>(Update)</sup> The Site area has decreased because of a boundary restriction    ✓	

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 <sup>®</sup> Negative <sup>O</sup> Positive & Negative <sup>O</sup>
(Update) No information available   ✓
(Update) Changes resulting from causes operating within the existing boundaries?
(Update) Changes resulting from causes operating beyond the site's boundaries?

(Update) Changes conseque the exclusion of some wet	ent upon site boundary reduction alone (e.g., and 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	y changes to the ecological character of the Ramsar Site, including in the application of the Criteria, since the previous RIS for the site.									
The boundary of the si been excluded. Forest	ite has been changed. It has been better delineated, in general resulting in that arable land and non-wetland forests have t and meadows, some of them wet, have been included. So the wetland area has increased. The border of the Ramsar to the planned extended nature reserve.									
(Update) Is the change in ec	cological character negative, human-induced yes O lange (above the limit of acceptable change)									
2.2 - Site location										
2.2.1 - Defining the Site	e boundaries									
b) Digital map/image <1 file(s) uploaded>										
	Former maps 0									
Boundaries description										
The border follows the	planned new border of the enlarged nature reserve.									
2.2.2 - General location										
a) In which large administra	ative region does the gite lies Östergötland	_								
	the site lie?	_								
b) What is the nearest to	Wilding Vanstena Unesnon									
	centre?	_								
2.2.3 - For wetlands on	national boundaries only									
	·									
a) Does the wettand	extend onto the territory of one or more other countries? Yes O No									
b) Is the site adjacer	nt to another designated Ramsar Site on the territory of another Contracting Party? Yes O No									
2.2.4 - Area of the Site										
Official area,	in hectares (ha): 5421									
Area, in hectares (ha) as	s calculated from GIS boundaries 5425.1									
2.2.5 - Biogeography										
Biogeographic regions										
Regionalisation scheme(s)	Biogeographic region -									
Freshwater Ecoregions of the World (FEOW)	Ecoregion 40: Northern Baltic drainages									
Other scheme (provide name below)  Sarmatic mixed forest										
WWF Terrestrial Ecoregions Sarmatic mixed forest PA0436										
Udvardy's Biogeographical Provinces	10 = Boreonemoral									
240 Marine division										

# Other biogeographic regionalisation scheme

Boreal

Boreo-nemoral zone.

DMEER 2002 (EEA) Digital Map of European Ecological Regions: Sarmatic mixed forest.

Nordiska ministerrådet, 1977. Naturgeografisk regionindelning av Norden. NU B 1977:34: Boreo-nemoral zone.

Bailey's Ecoregions

EU biogeographic regionalization

Other scheme (provide name below)

# 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 lake serves as a trap for nitrogen and phosphorous.

Other ecosystem services provided

The meadows provide grazing for cattle and fishing is popular during winter and hunting in the autumn.

Other reasons

For the EU boreal region, the site contains good examples of the following wetland types: O: Permanent freshwater lakes (a natural eutrophic lake), 4. Seasonally flooded agricultural land (Molinia meadows on calcareous, peaty or clayey-silt-laden soils) and Xf: Freshwater, tree-dominated wetlands (Alluvial forests with Alnus glutinosa and Fraxinus excelsior).

- ☑ Criterion 2 : Rare species and threatened ecological communities
- ☑ Criterion 3: Biological diversity

The site is an important site for plants, invertebrates, fishes and birds. More than 270 bird species have been observed, which is much for boreo-nemoral conditions. The site regularly supports more than 100 000 water birds during spring and autumn migration, making it one of the most prominent lakes for birds in northern Europe. A lot of waterfowl breed in the area, and the site is also important as a staging area for migratory birds. The site supports a number or rare species. The site hosts a species-rich ground beetle fauna (with species like Chlaenius tristis) and large populations of reed-living birds.

- ☑ Criterion 4 : Support during critical life cycle stage or in adverse conditions
- ☑ Criterion 5 : >20.000 waterbirds

Overall waterbird numbers >100 000

Start year 2014

Source of data: Tåkern Field Station annual report

- ☑ Criterion 6 : >1% waterbird population
- 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
Dactylorhiza incarnata	Early Marsh-Orchid		$\checkmark$				Protected species according to the (SFS 2007:845).	See textbox below the table and in section 3.1.
Herminium monorchis	Musk orchid	V	V				Swedish Red List 2015, VU.	See textbox below the table and in section 3.1.
Ophrys insectifera	Fly Orchid		V		LC ©SS		Protected species according to the (SFS 2007:845).	See textbox below the table and in section 3.1.
Primula farinosa	Bird's-eye primrose		V				Swedish Red List 2015, NT.	See textbox below the table and in section 3.1.

Criterion 2: For all species, their status in the Swedish red-list status and general information for that classification, 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/. All the species mentioned are living in the EU-habitat 6410 mentioned under 3.4.

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	Size	Period of pop. Est	% occurrence		CMS Appendix I	Other Status	Justification
Birds											
	Acrocephalus arundinaceus	Great Reed Warbler			400	2016		LC ©SF		Swedish Red List 2015, (NT).	Breeding. See textbox below the table and section 3.1.
AVES		Northern Shoveler			40	2016					Breeding and staging. See textbox below the table and section 3.1.
AVES	*** D	Garganey			20	2016		<b>VU</b> <b>● 3</b> 3 <b>●</b> 588		Swedish Red List 2015, (VU).	Breeding. See textbox below the table and section 3.1.
CHORDATA / AVES	Anas strepera	Gadwall			80	2016					Breeding and staging. See textbox below the table and section 3.1.
CHORDATA / AVES	Anser anser	Greylag Goose			19230	2016	3	LC ##   OMF			Staging. According to WI the total population of "anser, NW Europe/South-west Europe" consists of 610000 individuals. See textbox below the table and section 3.1.
AVES	brachyrhynchus	Pink-footed Goose			22	2016		LC ●部			Staging. See textbox below the table and section 3.1.
CHORDATA / AVES	Anser erythropus	Lesser White- fronted Goose			7	2017	5	VU •\$ •\$	<b></b> ✓	Swedish Red List 2015, (VU). EC Birds Directive, Annex 1.	Staging. See textbox below the table and section 3.1.
CHORDATA / AVES	Anser fabalis	Bean Goose			7900	2016	20	LC Str		Swedish Red List 2015, (NT).	Staging. According to Withe total population of "fabalis, Northeast Europe/North-west Europe" consists of 40000-45 000 individuals. See textbox below the table and section 3.1.

Phylum	Scientific name	Common name	Spec qualif und criter 2 4	fies ler rion	cont u cri	ecies ributes nder terion	Pop. Size	Period of pop. Est. o	% occurrence 1)	IUCN Red / List	CITES Appendix I	CMS Appendix I	Other Status	Justification
CHORDATA / AVES	<u></u>	Common Pochard		<b>2</b> C			12200	2016	4	VU ●\$* ●\$\$			Swedish Red List 2015, (VU).	Staging. According to WI the total population of "North-east Europe/North-west Europe" consists of 300000 individuals. See textbox below the table and section 3.1.
AVES		Eurasian Bittern	77				100	2016		LC ©SS			Swedish Red List 2015, (NT). EC Birds Directive, Annex 1.	Breeding. See textbox below the table and section 3.1.
AVES		Curlew Sandpiper					20	2016		NT ●\$* ●®#				Staging. See textbox below the table and section 3.1.
AVES		Little Stint					20	2016		LC ©#				Staging. See textbox below the table and section 3.1.
AVES		Black Tem	<b>V</b>				34	2016		<b>VU</b> ●\$1 ●\$1			Swedish Red List 2015, (VU). EC Birds Directive, Annex 1.	Breeding. See textbox below the table and section 3.1.
CHORDATA / AVES	Circus cyaneus	Northern Harrier					94	2016		LC ©ST			Swedish Red List 2015, (NT). EC Birds Directive, Annex 1.	Breeding. See textbox below the table and section 3.1.
CHORDATA / AVES	columbianus	Tundra Swan					10	2016		LC ©SSS			EC Birds Directive, Annex 1.	Staging. See textbox below the table and section 3.1.
CHORDATA / AVES	Fulica atra atra	Coot					11500	2016						Staging. See textbox below the table and section 3.1.
CHORDATA / AVES	Grus grus	Common Crane		2			7650	2016	3	LC				Important staging site. According to WI the total population of "grus, North-west Europe/Iberia & Morocco" consists of 240 000 individuals. See textbox below the table and section 3.1.
CHORDATA / AVES	Hydroprogne caspia	Caspian Tern					50	2016		NT ●\$\$ ●B#			Swedish Red List 2015, (NT). EC Birds Directive, Annex 1.	Staging. See textbox below the table and section 3.1.
CHORDATA / AVES		Bearded Reedling					20000	2016		LC			Swedish Red List 2015, (NT).	Breeding and staging. See textbox below the table and section 3.1.
CHORDATA / AVES	Porzana porzana	Spotted Crake	<b>I</b>				8	2016		LC			Swedish Red List 2015, (VU). EC Birds Directive, Annex 1.	Breeding. See textbox below the table and section 3.1.

<sup>1)</sup> 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, their distribution etc can be found at http://artfakta.artdatabanken.se/.

Criteria 2, 3, 4, 5, 6: Observation of the species can be found in the Swedish database for observations http://www.artportalen.se/.

Criterion 6 for the Lesser White-fronted Goose: The used total population for the Fennoscandia/Eastern Mediterranean population is 130 individuals. WI estimates 60-80 individuals excluding 50-70 for the Swedish population. Source: Niklas Liljebäck (the project for Lesser White-fronted Goose in Sweden) and David Schönberg Alm (the Swedish EPA).

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

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
3150 Natural eutrophic lakes with Magnopotamion or Hydrocharition—type vegetation	Ø	Lakes and ponds with mostly dirty grey to blue-green, more or less turbid, waters, particularly rich in dissolved bases, with free-floating surface communities, or, in deep, open waters, with associations of large pondweeds.	Included in the EC Habitats Directive, Annex I. The habitat was regarded as in unfavourable conservation status in the Swedish part of the boreal region (2013).
6410 Molinia meadows on calcareous, peaty or clayey-silt-laden soils	<b>2</b>	Meadows on more or less nutrient poor soils. They stem from extensive management, sometimes with a mowing.	Included in the EC Habitats Directive, Annex I. The habitat was regarded as in unfavourable conservation status in the Swedish part of the boreal region (2013).
91E0 Alluvial forests with Alnus glutinosa and Fraxinus excelsior	<b>2</b>	Riparian forests of Fraxinus and/or Alnus species of temperate and boreal Europe lowland and hill watercourses.	Included in the EC Habitats Directive, Annex I. The habitat was regarded as in unfavourable conservation status in the Swedish part of the boreal region (2013).
6430 Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels	Ø	Wet and nitrophilous tall herb edge communities, along water courses and woodland borders.	Included in the EC Habitats Directive, Annex I. The habitat was regarded as in unfavourable conservation status in the Swedish part of the boreal region (2013).

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

# 4.1 - Ecological character

The Tåkern site includes a shallow lake with open water, submerged aquatic vegetation and fringing reed beds surrounded by meadows and forest patches. Lake Tåkern is one of the most important bird-lakes in northern Europe. It is important for water birds throughout the year, both for breeding and migratory birds. It supports large numbers of common species as well as many rare ones. The reed beds within the site are the largest in Northern Europe, and the Molina-meadows around the lake have a species-rich flora and fauna.

Lake Tåkern lies east of Lake Vättern in a region dominated by Cambrio-silurian bedrock and cultivated clay plains, with alkaline soils. In order to create new pastures and fields, the water level of Lake Tåkern was permanently lowered in 1842 – 1844 by 1.7 meters to an average depth of only 0.8m. The reed beds around the lake became more extensive and the water meadows around the shores well grazed. The lake is very eutrophic, with a bog (Dags Mosse) at the south-western end. According to a court decision on regulation, annual fluctuation should stay between 93,75 m (autumn) and 94,20 m (spring).

## 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 >> M: Permanent rivers/ streams/ creeks		0		
Fresh water > Lakes and pools  >> O: Permanent freshwater lakes		1	4500	Unique
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/ pools		2	150	Rare
Fresh water > Lakes and pools >> Ts: Seasonal/ intermittent freshwater marshes/ pools on inorganic soils		0	50	Rare
Fresh water > Marshes on inorganic soils >> Xf: Freshwater, tree-dominated wetlands		3	120	Rare

#### 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		4	100	Rare

# 4.3 - Biological components

#### 4.3.1 - Plant species

#### Invasive alien plant species

Scientific name	Common name	Impacts	Changes at RIS update
Glyceria maxima		Actually (minor impacts)	unknown

## 4.3.2 - Animal species

#### Invasive alien animal species

Phylum	Scientific name	Common name	Impacts	Changes at RIS update
CHORDATA/MAMMALIA	Neovison vison	American Mink	Actually (minor impacts)	No change

# 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 0	_	1.1	0.00
4.4.7 -	Geomorp	nic	semno

	94	a) Minimum elevation above sea level (in metres)
	95	a) Maximum elevation above sea level (in metres)
iver basin 🗆	Entire rive	
iver basin 🗷	Upper part of rive	
iver basin 🗆	Middle part of rive	
iver basin 🗆	Lower part of rive	
iver basin 🛘	More than one rive	
iver basin 🔲	Not in rive	

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.

Coastal

The site is part of the stream Motala ström/the canal Göta kanal catchment area, which has many small sub-basins. The site is the only large lake in the sub-basin for the river Mjölnaån. Mjölnaån enters the lake Vättern that has its outlet in the Motala stream that later on continues in Göta canal. The catchment area has its outlet in the bay Bråviken, part of the Baltic Sea. The lake was lowered to its present water level in the 1840s.

# 4.4.3 - Soil

Mineral ☑	
(Update) Changes at RIS update No change   ■ Increase   □ Decrease   □ Unknown   □	
Organic ☑	
(Update) Changes at RIS update No change  on Increase  Unknown  O	
No available information □	
Are soil types subject to change as a result of changing hydrological Yes O No   Onditions (e.g., increased salinity or addification)?	

#### Please provide further information on the soil (optional)

There is mostly clay at the site, but also some peat. The limestone found north of Lake Tåkern has made the water and the surrounding soils alkaline.

## 4.4.4 - Water regime

#### Water permanence

Presence?	Changes at RIS update
Usually seasonal, ephemeral or intermittent water present	
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	<b>✓</b>	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 fluctuating (including tidal)	No change

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

After alternating droughts and floods during the first half of the 20th century, the water level was regulated by means of a sluice on Mjölnaån, the lake's outflow. The water level is allowed to fluctuate by about 45 cm annually, with a spring maximum and late summer minimum. Spring floods are an important part of the water regime affecting the wet meadows.

#### 4.4.5 - Sediment regime

Sediment regime unknown

Please provide further information on sediment (optional):

RIS for Site no. 23, Tåkern, Sweden				
There is only little sedimentation taking place, approximately 1-2 mm per year.				
4.4.6 - Water pH				
Akaline (pH>7.4) ✓				
(Update) Changes at RIS update No change  □ Increase  ○ Decrease  ○ Unknown  ○				
Unknown				
OTINIOWI L				
4.4.7 - Water salinity				
Fresh (<0.5 g/l) ☑				
(Update) Changes at RIS update No change				
Unknown □				
4.4.8 - Dissolved or suspended nutrients in water				
Eutrophic ☑				
(Update) Changes at RIS update No change  o Increase O Decrease O Unknown O				
Unknown □				
Please provide further information on dissolved or suspended nutrients (optional):				
The lake annually receives 7 tons of phosphorus and 200 tons of nitrogen, although it fluctuates between years. There are no obvious trends the nutrient deposits. The influx origins mostly from the nearby arable land. In spite of being nutrient-rich, the water is often clear. Most of the nutrients are absorbed by the water vegetation and small planktonic algae seldom dominate.	n			
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 ⑤ 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

To the forming Contracts						
	Ecosystem service	Examples	Importance/Extent/Significance			
	Wetland non-food products	Reeds and fibre	Medium			
	Wetland non-food products	Livestock fodder	High			

Please describe other ways in which the surrounding area is different:

The site is surrounded by arable land with intensive crop farming.

# Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Pollution control and detoxification	Water purification/waste treatment or dilution	High
Hazard reduction	Flood control, flood storage	High

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Medium
Recreation and tourism	Nature observation and nature-based tourism	High
Recreation and tourism	Picnics, outings, touring	High
Spiritual and inspirational	Spiritual and religious values	High
Spiritual and inspirational	Cultural heritage (historical and archaeological)	High
Spiritual and inspirational	Aesthetic and sense of place values	High
Scientific and educational	Educational activities and opportunities	High
Scientific and educational	Major scientific study site	High
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	High
Scientific and educational	Long-term monitoring site	High

## Other ecosystem service(s) not included above:

About 30 Stone Age settlements have been found around Lake Tåkern, evidence showing that the area was used for hunting and fishing. The earliest trace of human activity is represented by a bone harpoon, which could be as much as 9000 years old. The world's longest rune stone inscription, Rökstenen, is found in the neighbourhood. Many medieval churches are still in use around the lake, among them the oldest church in Sweden, north of Skåne County.

Within the site:	100000s
Outside the site:	100000s
Have studies or assessments been made of ecosystem services prov	the economic valuation of Yes O No O Unknown <b>⊚</b> ided by this Ramsar Site?

## 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

D.,	ы	li o	OW	ma	ro	hi	n
Гu	U	IIG	UVV	пе	15	ш	IJ

Category	Within the Ramsar Site	In the surrounding area
National/Federal		
government	<b>*</b>	

#### Private ownership

ato ominoromp		
Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)	<b>/</b>	<b>✓</b>

#### 5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for	County Administrative Board of Östergötland
managing the site:	
Provide the name and title of the person or people with responsibility for the wetland:	Head of Nature conservation unit at the County Administration
Postal address:	Länsstyrelsen Östergötland 581 86 Linköping
E-mail address:	natur.ostergotland@lansstyrelsen.se

# 5.2 - Ecological character threats and responses (Management)

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

Energy production and mining

nergy production and mini	ng					
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Renewable energy	Low impact	Medium impact		No change	✓	No change
ransportation and service (	corridors					
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Roads and railroads	Low impact			No change	✓	No change
Biological resource use Factors adversely	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Affecting site  Hunting and collecting terrestrial animals	Low impact	Medium impact	₩ With the Site	No change	₩ W	No change
luman intrusions and distu	ırbance					
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Recreational and tourism activities	Low impact	Low impact	✓	No change		No change
Natural system modification	IS					
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Dams and water management/use	Low impact	Medium impact	<b>2</b>	No change		No change
nvasive and other problema	atic species and genes					
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes

#### Pollution

one of the other o							
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes	
Agricultural and forestry effluents	Low impact	Medium impact	✓	No change	✓	No change	

 $\checkmark$ 

No change

No change

Medium impact

#### Climate change and severe weather

Invasive non-native/

alien species

Low impact

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Storms and flooding	Low impact	Medium impact	✓	No change		No change
Habitat shifting and alteration	Medium impact	Medium impact	<b>2</b>	No change		No change

## Please describe any other threats (optional):

The invasive species present in the area are Glyceria maxima and American mink, more information in 4.3.1-2. The renewable energy that can become a threat for the site is plant for wind power.

# 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	Tåkern		partly

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000 SCI and SPA	Tåkern	http://www.lansstyrelsen.se/Oste rgotland/SiteCollectionDocuments /Sv/djur-och-natur/skyddad-natur /natura-2000/bevarandeplaner-kom munvis/Mjölby/Tåkern_20160122. pdf	partly
Site of national importance for nature conservation (Riksintresse)	Tåkern	http://nvpub.vic-metria.nu/handl ingar/rest/dokument/202511	partly
nature reserve	Tåkern	http://www.lansstyrelsen.se/oste rgotland/Sv/djur-och-natur/skydd ad- natur/naturreservat/vadstena/ takern/Pages/index.aspx	partly

Non-statutory designations

- 4	worr statutory acsignations			
	Designation type	Name of area	Online information url	Overlap with Ramsar Site
	Important Bird Area	Tåkern	http://datazone.birdlife.org/sit e/factsheet/lake-tåkem-iba-swe den	

la Strict Nature Reserve

## 5.2.3 - IUCN protected areas categories (2008)

lb Wilderness Area: protected area managed mainly for wilderness protection	
Il National Park: protected area managed mainly for ecosystem protection and recreation	

III Natural Monument: protected area managed ma	ainly for conservation	1
	cific natural features	

IV Habitat/Species	Management Area: protected area managed mainly	J
	for conservation through management intervention	

V Protected Landscape/Seascape: protected area managed mainly for	
landscape/seascape conservation and recreation	200

M Managed Resource Protected Area: protected area managed mainly	/ r
for the ejectainable use of natural exceptance	

## 5.2.4 - Key conservation measures

Legal protection

Legal protection		
Measures	Status	
Legal protection	Implemented	

#### Habitat

Tablat	
Measures	Status
Catchment management initiatives/controls	Partially implemented
Improvement of water quality	Partially implemented
Habitat manipulation/enhancement	Implemented

#### Species

Measures	Status
Threatened/rare species	Implemented
management programmes	implemented

#### **Human Activities**

Measures	Status
Harvest controls/poaching enforcement	Partially implemented
Regulation/management of recreational activities	Implemented
Communication, education, and participation and awareness activities	Implemented
Research	Implemented

#### 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?

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning Yes  $\ensuremath{\mathsf{O}}$  No  $\ensuremath{\mathbf{0}}$ processes with another Contracting Party?

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

There is an education centre (Naturum) at the site. The centre has an exhibition of the site and arranges guided tours. There are arranged footpath and bird towers which one is adapted for wheel chairs. The site is part of the wetlands and people project.

URL of site-related webpage (if relevant): http://www.lansstyrelsen.se/ostergotland/Sv/djur-och-natur/friluftsliv/naturum-takern/Pages/index.as px

#### 5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Yes, there is a plan

## 5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Water regime monitoring	Implemented
Water quality	Implemented
Plant community	Implemented
Animal community	Implemented
Birds	Implemented

Submerged macrophytes are surveyed by Linköping University.

# 6 - Additional material

# 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

Tåkerns Fältststion 2015. Årsrapport 2014 från Tåkerns Fältstation. Linköping 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

<1 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:



View from Glänås Bird Tower ( *Lars Gezelius*, 25-06-2006 )



Viewfrom Hov bird tower ( Kurt Adolfsson, 10-04-2008 )



View over the western reedmosaic ( *Lars Gezelius*, 23-09-2011 )

## 6.1.4 - Designation letter and related data

#### Designation letter

<1 file(s) uploaded>

Date of Designation 1974-12-05