

Ramsar Information Sheet

Published on 22 December 2017 Update version, previously published on : 1 January 2002

Sweden Svartådalen



Designation date Site number 436 Area 1 977,00 ha

12 June 1989 Coordinates 59°52'40"N 16°19'52"E

https://rsis.ramsar.org/ris/436 Created by RSIS V.1.6 on - 20 August 2018

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

Svartådalen is a complex of four eutrophic, freshwater lakes: Fläcksjön, Gussjön, Gorgen and Rörbosjön. They are connected by the meandering river Svartån, and surrounded by low-lying, wet meadows. The site is listed as being of national importance for nature conservation, and it is internationally important for resting whooper swan Cygnus cygnus.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

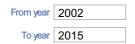
Compiler 1

Compiler 2

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



2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Svartådalen
Spanish)	
Unofficial name (optional)	Svartådalen (river valley); originally designated as 'River Svartån'

iolitical hame (optional) Svartadaler (river valley), originally designated as river Svarta

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 O
(Update) The boundary has been delineated more accurately 🗹
^(Update) The boundary has been extended 🗹
^(Update) The boundary has been restricted
(Update) B. Changes to Site area the area has decreased
^(Update) The Site area has been calculated more accurately 🗹
^(Update) The Site has been delineated more accurately
^(Update) The Site area has increased because of a boundary extension
^(Update) 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?
^(Update) Are the changes Positive O Negative O Positive & Negative O
(Update) Positive % 2
(Update) Negative % 1
^(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 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.

The boundary has been changed in a way that better follow the boundaries for nature reserves and Natura sites. A large proportion of the land that has been excluded is arable land, but some small wetlands close to major wetland have also been excluded. Grasslands, small peatlands and wet forests as well as some arable land have been included in the site. About 10 % of the old site has been excluded. The % positive and negative above is a guess about how much wetlands that was included or excluded, it's probably less than written.

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

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded>

Former maps	0

Boundaries description

The boundaries are to a large extent identical with the boundaries of the corresponding Natura 2000-site.

2.2.2 - General location

a) In which large administrative region does the site lie?	Västmanland
b) What is the nearest town or population centre?	Sala

2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries?

b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party?

2.2.4 - Area of the Site

Official area, in hectares (ha): 1977

GIS boundaries

Area, in hectares (ha) as calculated from 1978.6

2.2.5 - Biogeography

Regionalisation scheme(s)	Biogeographic region							
WWF Terrestrial Ecoregions	PA0436 Sarmatic mixed forest							
WWF Terrestrial Ecoregions	PA0608 Scandinavian-Russian taiga							
Other scheme (provide name below)	Sarmatic mixed forest							
Other scheme (provide name below)	Scandinavian-Russian taiga							
Freshwater Ecoregions of the World (FEOW)	406 Northern Baltic drainages							
EU biogeographic regionalization	Boreal							

Other biogeographic regionalisation scheme

EEA, 2002: Digital Map of the European Ecological Regions (DMEER): "Scandinavian-Russian taiga" and "Sarmatic mixed forest".

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	This site is important for flood control and for improvement of the water quality in the river.
Other ecosystem services provided	The site provides grazing for live-stock.
Other reasons	The site an important example of representative lakes, rivers, wet meadows and wet forests in the EU boreal region. Large areas of wet meadows and pastures are flooded during spring.

Criterion 2 : Rare species and threatened ecological communities

Criterion 3 : Biological diversity

Justification The site support a number of species either representative or rare in the EU boreal region.

Criterion 4 : Support during critical life cycle stage or in adverse conditions

☑ 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
Potamogeton acutifolius	flat-stalked pondweed	V	V				Swedish Red List 2015, (VU).	See textbox below the table and in section 3.1.
Viola uliginosa			V				Swedish Red List 2015, (NT).	See textbox below the table and in section 3.1.

Criterion 2 and 3: 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/. 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

Phy	um Scientific nar	ne Common name	CITCETION	Species contributes under criterion 3 5 7 8	Period of pop. Est.	% occurrence 1)	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
Bir	ds										

Phylum	Scientific name	Common name	Spec quali unc crite 2 4	lifies der erion	cc	Pop. Size	d of pop. Est	occurrence	UCN CITI Red Appe List I		CMS ppendix I	Other Status	Justification
CHORDATA / AVES	4 🔍 🍋	Northern Pintail	JJ]		Swedish Red List 2015, (VU).	Important staging site during migration. See textbox below the table and in section 3.1.
AVES	Anas clypeata 📲 💁 💫	Northern Shoveler			V				C]			Breeding, foraging and staging site. See textbox below the table and in section 3.1.
AVES	Anas querquedula ڇ 💁 🔌	Garganey	ØD		I]		Swedish Red List 2015, (VU).	See textbox below the table and in section 3.1.
CHORDATA / AVES	2 🕰 🄊	Bean Goose			J.]		Swedish Red List 2015, (NT).	Important staging and foraging site during migration. See textbox below the table and in section 3.1.
CHORDATA / AVES	4 💭	Common Pochard	ØD		Z]		Swedish Red List 2015, (VU).	See textbox below the table and in section 3.1.
AVES	Botaurus stellaris 📲 🛄 🔌	Eurasian Bittern	DØ		I]		Swedish Red List 2015, (NT). EC Birds Directive Annex I.	Breeding. See textbox below the table and in section 3.1.
CHORDATA / AVES	Chlidonias niger 📲 🛄 🔌	Black Tern			J]		Swedish Red List 2015, (VU).	Breeding. Very important site for species in the EU boreal region. See textbox below the table and in section 3.1.
	aeruginosus	Western Marsh Harrier]		EC Birds Directive Annex I.	Foraging. See textbox below the table and in section 3.1.
AVES	Circus cyaneus	Northern Harrier			Z]		Swedish Red List 2015, (NT). EC Birds Directive Annex I.	Foraging. See textbox below the table and in section 3.1.
CHORDATA / AVES	4 🔍 🍋	Corn Crake	Dø		J]		Swedish Red List 2015, (NT). EC Birds Directive Annex I.	Breeding. See textbox below the table and in section 3.1.
CHORDATA / AVES	Cygnus cygnus 📲 🛄 🄌	Whooper Swan	DØ	ØC	J	2500 2000-	2010	4]		EC Birds Directive Annex I.	Important staging site during migration. See textbox below the table and in section 3.1.
	schoeniclus	Common Reed Bunting; Reed Bunting; Common Reed-Bunting	ØD		J]		Swedish Red List 2015, (VU).	See textbox below the table and in section 3.1.
AVES	Gallinago media ڇ 💁 🔌	Great Snipe	DØ						NT]		Swedish Red List 2015, (NT). EC Birds Directive Annex I.	Staging. See textbox below the table and in section 3.1.
CHORDATA / AVES	Grus grus	Common Crane]		EC Birds Directive Annex I.	Important site for staging, breeding and foraging. See textbox below the table and in section 3.1.
AVES	albicilla	White-tailed Eagle			J]	V	Swedish Red List 2015, (NT). EC Birds Directive Annex I.	Foraging. See textbox below the table and in section 3.1.
AVES	Larus argentatus 📲 🛄 🔌	European Herring Gull; Herring Gull	ØD		Ø]		Swedish Red List 2015, (VU).	See textbox below the table and in section 3.1.
CHORDATA / AVES	Luscinia svecica	Bluethroat	DØ		J				C]		EC Birds Directive Annex I.	Important staging site during migration. See textbox below the table and in section 3.1.
CHORDATA / AVES	Mergellus albellus 🛃 🛄 🔌	Smew	ZZ]		EC Birds Directive Annex I.	Important staging and foraging site during migration. See textbox below the table and in section 3.1.

	Scientific name	Common name	Species qualifies under criterion 2 4 6 9	Species contributes under criterion 3 5 7 8	Size Period of pop. Est.	% occurrence 1)	IUCN Red A List	CITES Appendix I	CMS Appendix I	Other Status	Justification
CHORDATA / AVES	61	Western Yellow Wagtail			ו		LC				Breeding, foraging, staging. See textbox below the table and in section 3.1.
CHORDATA Nur / AVES	imenius arquata 9 💁 🔊	Eurasian Curlew			ו					Swedish Red List 2015, (NT).	Important staging site during migration and breeding site as well. See textbox below the table and in section 3.1.
CHORDATA Phi. / pug AVES	ilomachus gnax	Ruff			ו					Swedish Red List 2015, (VU).	Important staging and foraging site during migration, also a breeding site. See textbox below the table and in section 3.1.
CHORDATA Plu / AVES	<u>er</u> 🌖	European Golden Plover; European Golden-Plover			ו					EC Birds Directive Annex I.	Important staging site during migration. See textbox below the table and in section 3.1.
CHORDATA Por / AVES	rzana porzana 💁 👂	Spotted Crake	<u>v</u> voc		ו		LC			Swedish Red List 2015, (VU). EC Birds Directive Annex I.	Breeding. See textbox below the table and in section 3.1.
CHORDATA Ste	ei. 🌖	Common Tern								EC Birds Directive Annex I.	Breeding and foraging. See textbox below the table and in section 3.1.
CHORDATA Trin / AVES	inga glareola 9 🤐 🔌	Wood Sandpiper			ו					EC Birds Directive Annex I.	Breeding site. See textbox below the table and in section 3.1.

1) Percentage of the total biogeographic population at the site

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

Criterion 6: The population size for the whooper swan in the "North-west Mainland Europe" is 59 000 (ref Wetlands International). The Ref for the population size at the site is 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 wetlands mainly consist of a river and three shallow lakes, which are to a large extent surrounded by wet meadows. The lakes are euthrophic with large areas with emergent water vegetation. There are a number of vascular plants in the open water bodies that are favoured by the eutrophic conditions, e.g. several Potamogeton species. The surrounding wet meadows are to a large extent flooded during spring and are to a very large extent used by migratory birds during spring. The wet meadows are to a large extent mowed in the northern part of the area and in the Southern part of the area they are mainly mowed by grazing cattle. Like in many other shallow euthropic lakes, the vegetation has changed to a large extent during the last decades in Gussjön and Fläcksjön. The vegetation cover in these lakes is much bigger than it used to be.

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	Mndre vattendrag	0	23	Representative
Fresh water > Lakes and pools >> O: Permanent freshwater lakes	Naturligt näringsrika sjöar	2	650	Representative
Fresh water > Lakes and pools >> Tp: Permanent freshwater marshes/ pools		3	170	Representative
Fresh water > Marshes on peat soils >> U: Permanent Non- forested peatlands	Öppna mossar och kärr	4	25	Representative
Fresh water > Marshes on inorganic soils >> W: Shrub- dominated wetlands		0	20	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	Fuktängar	1	706	Representative

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

Clim	atic region	Subregion
	st Mid-Latitude vith cold winters	Dfc: Subarctic (Severe winter, no dry season, cool summer)

4.4.2 - Geomorphic setting

a) Minimum elevation above sea l	level (in metres)	60		
a) Maximum elevation above sea l	level (in metres)	65		
			Entire rive	r basin 🗖

Upper part of river basin
Mddle 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 river Svartån is one of many larger tributaries to the large catchment area around the lake Mälaren. Svartån itself have many tributaries of which some enters Svartån at the site. The water from lake Mälaren finally enters the Baltic Sea.

4.4.3 - Soil

Mineral 🗵

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

Organic 🗹

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

No available information \Box

Are soil types subject to change as a result of changing hydrological conditions (e.g., increased salinity or acidification)?

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		No change

Water destination

Presence?	Changes at RIS update
To downstream catchment	No change
Marine	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.

The water levels fluctuate with the season. Normally large flooding takes place when the snow melts or there have been large amounts of rain.

4.4.5 - Sediment regime

Significant transportation of sediments occurs on or through the site 🜌

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

Sediment regime unknown \Box

4.4.6 - Water pH

Circumneutral (pH: 5.5-7.4) 🜌

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

Unknown 🛛

4.4.7 - Water salinity

Fresh (<0.5 g/l) 🗹

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

Unknown 🗌

4.4.8 - Dissolved or suspended nutrients in water

Eutrophic 🗹

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

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 O 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 🜌

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

The site mostly contains lakes and wet land areas that are regularly flooded. The surrounding consists of arable land, farms, and forest and some small wetlands.

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

		Ρ	rov	S	ion	ing	Se	rvice	S
--	--	---	-----	---	-----	-----	----	-------	---

Ecosystem service	Examples	Importance/Extent/Significance
Food for humans	Sustenance for humans (e.g., fish, molluscs, grains)	Low
Wetland non-food products	Livestock fodder	High

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Hazard reduction	Flood control, flood storage	Medium

Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Recreation and tourism	Recreational hunting and fishing	Low
Recreation and tourism	Nature observation and nature-based tourism	Medium

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganizms, the genes they contain, and the ecosystems of which they form a part	High

 Within the site:
 1000

 Outside the site:
 500

Have studies or assessments been made of the economic valuation of ecosystem services provided 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 RIS for Site no. 436, Svartådalen, Sweden

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	V	
Other public ownership	×	

Private ownership

Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)	×	V

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

The area is mostly privately owned, a minor part is 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:

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

S-721 86 Västerås Postal address: Sweden

E-mail address: vastmanland@lansstyrelsen.se

Kontaktperson för Ramsarområden

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
Housing and urban areas	Low impact			No change	×	No change

Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Annual and perennial non-timber crops	Medium impact			No change	×	No change
Livestock farming and ranching	Medium impact			No change	X	No change

Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Unspecified/others	Medium impact	Medium impact	×	No change		No change

Pollution

Follolion						
Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Agricultural and forestry effluents					×	

Please describe any other threats (optional):

Two of the lakes at the site have been lowered in the beginning of the 20th Century. There are old dykes adjacent to these areas. As a consequence, the lake Gorgen has changed into a wetland, with small areas of open water. In the lake Gussjön the vegetation is getting denser rapidly as a result of a high nutrient load and a shallow water level.

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	Fläckebo SAC & SPA	http://www.lansstyrelsen.se/vast manland/Sv/djur-och-natur/skydda d- natur/natura-2000/lista-over-b evarandeplaner/sala/Pages/flacke bo.aspx	partly
EU Natura 2000	Fläcksjön SAC & SPA	http://www.lansstyrelsen.se/vast manland/Sv/djur-och-natur/skydda d- natur/natura-2000/lista-over-b evarandeplaner/sala/Pages/flacks jon.aspx	partly
EU Natura 2000	Gorgen SAC & SPA	http://www.lansstyrelsen.se/vast manland/Sv/djur-och-natur/skydda d- natur/natura-2000/lista-over-b evarandeplaner/sala/Pages/gorgen .aspx	partly
EU Natura 2000	Gussjön SAC & SPA	http://www.lansstyrelsen.se/vast manland/Sv/djur-och-natur/skydda d- natur/natura-2000/lista-over-b evarandeplaner/sala/Pages/gussjo n.aspx	partly
EU Natura 2000	Nötmyran SAC & SPA	http://www.lansstyrelsen.se/vast manland/Sv/djur-och-natur/skydda d- natur/natura-2000/lista-over-b evarandeplaner/sala/Pages/notmyr an.aspx	partly
EU Natura 2000	Rörbosjön SAC & SPA	http://www.lansstyrelsen.se/vast manland/Sv/djur-och-natur/skydda d- natur/natura-2000/lista-over-b evarandeplaner/sala/Pages/rorbos jon.aspx	partly
EU Natura 2000	Vrenninge SAC & SPA	http://www.lansstyrelsen.se/vast manland/SiteCollectionDocuments/ Sv/djur-och-natur/skyddad-natur/ natura- 2000/Gällande%20bevarand eplaner/BEVARANDEPLAN_VRENNINGE SE0250151.pdf	-

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Nature reserve	Fläckebo	http://www.lansstyrelsen.se/vast manland/Sv/djur-och-natur/skydda d- natur/naturreservat/sala/flack ebo/Pages/index.aspx	partly

Non-statutory designations

Non Statutory designations			
Designation type	Name of area	Online information url	Overlap with Ramsar Site
Important Bird Area	River Svartån	http://datazone.birdlife.org/sit e/factsheet/river-svartån-iba-s weden	partly

5.2.3 - IUCN protected areas categories (2008)

la Strict Nature Reserve 🗵

- Ib 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 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

How is the Site managed?, S5 - Page 2

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Legal protection

Measures	Status
Legal protection	Implemented

Human Activities

Measures	Status
Livestock management/exclusion (excluding fisheries)	Implemented

Other:

Most of the area is included in the Natura 2000-network. Grazing and haymaking is regulated through agreements with the farmers in the area.

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 O No O

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

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No, the site has already been restored

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Birds	Implemented

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

Olson, A. Melica 2008. Submersa makrofyter i Fläcksjön, Gussjön och Rörbosjön 2006, basinventering Natura 2000. Länsstyrelsen i Västmanlands län, stencil.

Jordbruksverket, 2002-2004. Inventering av värdefulla ängs- och betesmarker. Jordbruksverkets databas TUVA och GIS-skikt. Loreth, T. 2007. Nätprovfiske i Västmanlands län 2007. Länsstyrelsen i Västmanlands län, Rapport 2007:18.

6.1.2 - Additional reports and documents

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

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

v. site management plan

<no file available>

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:





Old hay barns close to the lake Fläckesjön and its shore meadows. (*Jenny Lonnstad*, 07-09-2015)

6.1.4 - Designation letter and related data

Designation letter

<1 file(s) uploaded>

Date of Designation 1989-06-12