



Ramsar Information Sheet

Published on 25 November 2015

Update version, previously published on 1 January 2007

Hungary

Upper Kiskunság Alkaline Lakes



Designation date	11 April 1979
Site number	187
Coordinates	46°48'36"N 19°10'18"E
Area	7 393,80 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

In limnological terms these very shallow intermittent waters are not lakes but rather comprise a characteristic type of wetlands with physical and ecological features similar to coastal pan ecosystems. The sodic-alkaline pans, marshes, and meadows of Kiskunság give a good special example of continental saline ecosystems and characteristic of the Pannonic biogeographic region. It hosts several noteworthy plant species and communities, including e.g. the regionally endemic *Aster tripolium* ssp. *pannonicus*. The site is a very important area for waterbirds during both breeding and migration season. The site comprises four major characteristic shallow open water sodic-alkaline pans (Büdös-szék, Zab-szék, Kelemen-szék, Böddi-szék) and three major sodic-alkaline reedbeds (Szántó-szék, Kis-rét, Fehér-szék). There are many intermittent and temporary smaller sodic wetland pools among six major wetland units of the site.

2 - Data & location

2.1 - Formal data

2.1.1 - Name and address of the compiler of this RIS

Compiler 1

Name	Zoltan Vajda
Institution/agency	Kiskunsági Nemzeti Park Directorate
Postal address	H-6000 Kecskemét, Liszt F. u.19. Hungary
E-mail	vajdaz@knp.hu
Phone	+36-76-482-611
Fax	+36-76-481-074

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

From year	2015
To year	2015

2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)	Upper Kiskunság Alkaline Lakes
---	--------------------------------

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) B. Changes to Site area No change to area

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? No

2.2 - Site location

2.2.1 - Defining the Site boundaries

b) Digital map/image

<1 file(s) uploaded>

Boundaries description (optional)

The site follows the boundary of the Upper Kiskunsági Alkaline Lakes unit of the Kiskunság NP, with the addition of the Böddi-szék (Lake Böddi) area, where the boundary follows the shoreline of the lake.

2.2.2 - General location

a) In which large administrative region does the site lie? Bács-Kiskun county

b) What is the nearest town or population centre? Close to the villages of Fülöpszállás, Szabadszállás, Dunatétélen territories. The nearest large town is the capital of county Kecskemét.

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): 7393.8

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

7394.49

2.2.5 - Biogeography

Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	Pannonic

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

Other ecosystem services provided

This is a vast sodic lowland plain of the Great Hungarian Plain, the former flood area of the River Danube, second in size only to the Hortobágy. The sodic plain has a rather variegated micro-relief. Differences of just a couple of dozen inches in elevation can produce different types of soils with distinctive floras to go with them. The high salinity and poor water economy of the soil allow only halophytic grass. It presents a nice variation of sodic meadows, pastures, sodic terraces and sodic barrens with a typical vegetation consisting of various salt-resistant and halophyte species. The sodic pans and salt marshes are the other important habitat types of the site from the point of view of birds and invertebrates as well. The shallow pans hold high salinity sodic water. Most of them regularly dry up because of the summer drought. The site is important not only from the point of view of natural inland salt habitats, but is important for birds as a nesting, feeding and roosting site as well.

Other reasons

The site contains a representative and unique example of natural sodic-alkaline type wetlands within the Pannonic biogeographic region. It is the largest and most important salt area between the Danube and Tisza rivers in the Great Hungarian Plain. The so-called "szoloncsák" and "szoloncsák-szolonyc" types of these salt habitats and sodic soils are characterised by salt accumulation levels on or close to the soil surface, but they differ from the famous salt lands of the Hortobágy. (In the latter region salt accumulation level is more distant from the soil surface, and there are also differences in chemical composition of soils.)

- Criterion 2 : Rare species and threatened ecological communities



- Criterion 3 : Biological diversity

Justification

The site supports populations of plant and animal species important for maintaining the biological diversity of Pannonic biogeographic region. Due to its geographical location (e.g. as a basin centre surrounded by mountains) and its other features (see section 1.1 Summary description), it became a place for the development of numerous endemic plant and animal species.

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

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>Centaurea scabiosa sadleriana</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		Pannonic endemic, biogeographically important
<i>Cirsium brachycephalum</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LC 	<input type="checkbox"/>	Annex II of the EU Habitats Directive	
<i>Entosthodon hungaricus</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		Pannonic endemic, nationally protected moss
<i>Lepidium cartilagineum</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		Pannonic endemic, biogeographically important
<i>Plantago schwarzenbergiana</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		Pannonic endemic, biogeographically important and protected in Hungary
<i>Puccinellia distans</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		Pannonic endemic, biogeographically important and protected in Hungary
<i>Suaeda pannonica</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		Pannonic endemic, biogeographically important and protected in Hungary
<i>Tripolium pannonicum</i> 		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		Pannonic subendemic

Criterion 3 - species which are not listed in the Catalogue of Life:













Limonium gmelini ssp. hungaricum – Pannonic endemic, biogeographically important





































Noteworthy flora which is not included in the Catalogue of Life:




































Desmatodon cernuus – nationally protected moss































Phascum floekeanum – nationally protected moss

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	IUCN Red List	CITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
CHORDATA/ AVES	<i>Acrocephalus melanopogon</i> 	Moustached Warbler	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Alcedo atthis</i> 	Common Kingfisher	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Anser erythropus</i> 	Lesser White-fronted Goose	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Anthus campestris</i> 	Tawny Pipit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Ardea alba</i> 	Great Egret	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Ardea purpurea</i> 	Purple Heron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds

Phylum	Scientific name	Common name	Species qualifies under criterion			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	GITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7								
CHORDATA/ AVES	<i>Ardeola ralloides</i> 	Squacco Heron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Aythya nyroca</i> 	Ferruginous Duck	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AMPHIBIA	<i>Bombina bombina</i> 	European Fire-bellied Toad	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Habitats Directive	
CHORDATA/ AVES	<i>Botaurus stellaris</i> 	Eurasian Bittern	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Branta ruficollis</i> 	Red-breasted Goose	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				EN 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Burhinus oedicnemus</i> 	Eurasian Stone-curlew	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Charadrius alexandrinus</i> 	Kentish Plover; Snowy Plover	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Chlidonias hybrida</i> 	Whiskered Tern	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Chlidonias niger</i> 	Black Tern	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Ciconia ciconia</i> 	White Stork	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Ciconia nigra</i> 	Black Stork	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Circus aeruginosus</i> 	Western Marsh Harrier	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Circus cyaneus</i> 	Northern Harrier	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Circus pygargus</i> 	Montagu's Harrier	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ ACTINOPTERYGII	<i>Cobitis taenia</i> 	spined loach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Habitats Directive	
CHORDATA/ AVES	<i>Coracias garrulus</i> 	European Roller	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
ARTHROPODA/ INSECTA	<i>Dorcadion fulvum cervae</i> 		<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"/>	<input type="checkbox"/>	Annex I of the EU Habitats Directive	Pannonic endemic
CHORDATA/ AVES	<i>Egretta garzetta</i> 	Little Egret	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ REPTILIA	<i>Emys orbicularis</i> 	European Pond Terrapin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Habitats Directive	

Phylum	Scientific name	Common name	Species qualifies under criterion				Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	GITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7	8								
CHORDATA/ AVES	 <i>Falco cherrug</i>	Saker Falcon	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				EN 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Falco columbarius</i>	Merlin	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Falco peregrinus</i>	Peregrine Falcon	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Falco vespertinus</i>	Red-footed Falcon	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Gelochelidon nilotica</i>	Gull-billed Tern	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Grus grus</i>	Common Crane	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Haliaeetus albicilla</i>	White-tailed Eagle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Himantopus himantopus</i>	Black-winged Stilt	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Hydrocoloeus minutus</i>	Little Gull	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Hydroprogne caspia</i>	Caspian Tern	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Ichthyaetus melanocephalus</i>	Mediterranean Gull	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Ixobrychus minutus</i>	Little Bittern	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Lanius collurio</i>	Red-backed Shrike	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	 <i>Lanius minor</i>	Lesser Grey Shrike	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ ACTINOPTERYGII	 <i>Leuciscus aspius</i>	asp	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Habitats Directive	
CHORDATA/ AVES	 <i>Luscinia svecica</i>	Bluethroat	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ MAMMALIA	 <i>Lutra lutra</i>	European Otter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Habitats Directive	
CHORDATA/ AVES	 <i>Mergellus albellus</i>	Smew	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ MAMMALIA	 <i>Mustela eversmannii</i>	Steppe Polecat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Habitats Directive	

Phylum	Scientific name	Common name	Species qualifies under criterion			Species contributes under criterion				Pop. Size	Period of pop. Est.	% occurrence	IUCN Red List	GITES Appendix I	CMS Appendix I	Other Status	Justification
			2	4	6	9	3	5	7								
CHORDATA/ AVES	<i>Nycticorax nycticorax</i> 	Black-crowned Night Heron; Black-crowned Night-Heron	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Otis tarda</i> 	Great Bustard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Pandion haliaetus</i> 	Osprey; Western Osprey	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Phalaropus lobatus</i> 	Red-necked Phalarope	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Philomachus pugnax</i> 	Ruff	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Platalea leucorodia</i> 	Eurasian Spoonbill	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Plegadis falcinellus</i> 	Glossy Ibis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Pluvialis apricaria</i> 	European Golden Plover; European Golden-Plover	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Porzana parva</i> 	Little Crane	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Porzana porzana</i> 	Spotted Crane	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Recurvirostra avosetta</i> 	Pied Avocet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ ACTINOPTERYGI	<i>Rhodeus amarus</i> 		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Habitats Directive	
CHORDATA/ MAMMALIA	<i>Spermophilus citellus</i> 	European Ground Squirrel; European Souslik	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				VU 	<input type="checkbox"/>	<input type="checkbox"/>	Annex II and IV of the EU Habitats Directive	
CHORDATA/ AVES	<i>Sterna hirundo</i> 	Common Tern	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AVES	<i>Tringa glareola</i> 	Wood Sandpiper	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				LC 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Birds Directive	The site supports notable breeding, migrating, wintering and resident birds
CHORDATA/ AMPHIBIA	<i>Triturus dobrogicus</i> 	Danube crested newt	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				NT 	<input type="checkbox"/>	<input type="checkbox"/>	Annex I of the EU Habitats Directive	

Noteworthy fauna which is not included in the Catalogue of Life:

- *Saragossa porosa kenderiensis* – Pannonic endemic

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

RIS for Site no. 187, Upper Kiskunság Alkaline Lakes, Hungary

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification
1530 Pannonic salt steppes and salt marshes	<input checked="" type="checkbox"/>		Annex I of the EU Habitats Directive
6250 Pannonic loess steppic grasslands	<input checked="" type="checkbox"/>		Annex I of the EU Habitats Directive
6210 Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia)	<input checked="" type="checkbox"/>	important orchid sites	Annex I of the EU Habitats Directive

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

4.1 - Ecological character

The prevalence of different sodic alkaline wetland habitat structures depends on water levels and seasonal fluctuation, which may be very variable year to year.

- Lepidio-Puccinellietum and Astero-Agrostetum albae sodic marshes (see Section 6.1.2)
- Puccinellietum limosae sodic marshes (see Section 6.1.2)
- Bolboschoenus-Phragmitetum sodic marshes (see Section 6.1.2)
- Open bed of pans (see Section 6.1.2)

Other not characteristic wetlands types can be also found such as Alopecuretum pratensis meadow and Caricetum acutiformis ripariae marshes.

Continental Pannonic sodic affected steppes are extensively scattered around the wetlands such as Artemisio-Festucetum pseudovinae danubiale, and Achilleo-Festucetum pseudovinae. Fragmented Pannonic loess steppic grasslands are also such as Salvia-Festucetum rupicolae.

Please refer to Section 6.1.2. vi. other published literature.

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
Saline, brackish or alkaline water > Lakes >> R: Seasonal/ intermittent saline/ brackish/ alkaline lakes and flats		1	4307	Representative
Saline, brackish or alkaline water > Marshes & pools >> Ss: Seasonal/ intermittent saline/ brackish/ alkaline marshes/ pools		1		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
1: Aquaculture ponds		2	41	
3: Irrigated land		2		
9: Canals and drainage channels or ditches		3	29	

4.3 - Biological components

4.3.1 - Plant species

Invasive alien plant species

Scientific name	Common name	Impacts	Changes at RIS update
<i>Elaeagnus angustifolia</i>		Actually (minor impacts)	No change

4.3.2 - Animal species

<no data available>

4.4 - Physical components

4.4.1 - Climate

Climatic region	Subregion
C: Moist Mid-Latitude climate with mild winters	Csa: Mediterranean (Mld with dry, hot summer)

The climate variations are limited in the region of the Carpathian Basin. The macroclimate can be considered a homogenous basic feature in terms of surface and fauna evolution, as well.
 The region has a temperate continental climate. Its unique features are limited cloudiness, a relatively high number of sunshine hours, high daily and annual temperature variation, relative dryness and very low humidity values. For more information on climate, please refer to Section 6.1.2. vi. other published literature.

4.4.2 - Geomorphic setting

a) Mnimum elevation above sea level (in metres)

Middle part of river basin

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 sodic plain belongs to River Danube catchment area. The general physical features of the site is characteristic for almost whole catchment area of the pans, but have to put emphasis on sodic wetlands have more extensive groundwater catchment area than on the surface. The local wetland catchment area has two main part, on the major part is the lowland River Danube basin, and on the eastern part is the plain sandy ridge plateau.

4.4.3 - Soil

Mneral

Organic

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

Please provide further information on the soil (optional)

- Chernozem meadow soil types
 - Solonetz meadow or carbonated solonetz soils
 - Solonchak-solonetz soils, sodic solonchak soils, solonchak soils of eroded salt berms. Among these calcareous-sodic solonchak-solonetz soils are the most common, giving the character of the sodic plains found here.

Please refer to Section 6.1.2. vi. other published literature for more information on soil types.

4.4.4 - Water regime

Water permanence

Presence?	Changes at RIS update
Usually permanent water present	
Usually seasonal, ephemeral or intermittent water present	

Source of water that maintains character of the site

Presence?	Predominant water source	Changes at RIS update
Water inputs from rainfall	<input checked="" type="checkbox"/>	No change
Water inputs from groundwater	<input checked="" type="checkbox"/>	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 sodic-alkaline alkaline pan is a special type of continental salt waters, which is a typical Pannonic wetland type in Hungary. These pans have primarily groundwater and rainfall supplied water bodies. These are seasonal intermittent shallow waters (max. depth = 0.4-0.5 m), because there is notable seasonal water level fluctuation and frequently dries out entirely to middle of summer or autumn.

4.4.5 - Sediment regime

Please provide further information on sediment (optional):

The total dissolved solids is dominated in sodium (Na+), calcium (Ca2+), carbonate (CO32-) ions, and high grey-brown coloured holomictic turbidity being permanently suspended by colloidal ion complex. The very high turbidity is in open pans attributed to the daily re-suspension of the sediments by the winds coupled with its shallowness.

The susceptibility to re-suspension of sediments is different for each lake as it depends on the sediment type and on the shape and depth profile of a lake. Hypothetically, wave re-suspension occurs depends on the critical fetch (Fcrit) at which the wavelength exceeds twice the depth, relative to the total length of the lake measured in the direction of the wind. It causes that generally at lower find velocity there can be found a lower turbidity less re-suspended belt (Fcrit) around the shoreline below a critical water depth. The lowest turbidity can be found every time among emergent marshland vegetation.

(ECD) Water turbidity and colour

4.4.6 - Water pH

Alkaline (pH>7.4)

4.4.7 - Water salinity

Mxohaline (brackish)/Mxosaline (0.5-30 g/l)

Hyperhaline/Hypersaline (>40 g/l)

Please provide further information on salinity (optional):

The salinity varies between hypo- (3-20 g.l-1) mesosaline (20-50 g.l-1) ranges corresponding with water level.

The total solute content of the region's ground water is relatively high. Even the smallest values are around 1000 mg/l. The highest values vary between 2000-10.000 mg/l. In the event of high ground water levels the ground water also brings solutes to the surface via its capillary ascent. The most important cations and anions in the ground water are Na+, Ca2+, Mg2+ and HCO3-, according to predominance Na+, HCO3- couple with high pH values (sodic water).

The cause of salination in all cases is the salty ground water with a high Na(Mg,Ca)HCO3 content. The Pannonic salt (sodic) steppes, wetlands and marshes have developed by characteristic salt composition and continental climate.

4.4.8 - Dissolved or suspended nutrients in water

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.

4.5 - Ecosystem services

4.5.1 - Ecosystem services/benefits

Provisioning Services

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

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Maintenance of hydrological regimes	Groundwater recharge and discharge	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	Low
Spiritual and inspirational	Cultural heritage (historical and archaeological)	Medium

Other ecosystem service(s) not included above:

The site has an important role in the retention and storage of inland water and regulation of the groundwater level of the surrounding area as well.

No fisheries, forestry production, religious importance, archaeological sites corresponding with the wetlands. Social relations with existing wetlands can be understood by traditional Hungarian extensive farmland lifestyle especially regard to domestic semi-nomadic animals grazing.

Current recreation and tourism: Generally not important, only fishing tourism is intensive along the western border and eastern part of the site at the main regional irrigation channel, and a little ecotourism and bird watching tourism are involved.

Within the Ramsar site:
The extensive grassland, reed harvesting and agricultural using are involved.

In the surroundings/catchment:
Mainly the extensive agricultural, grassland and planted forest using are involved.

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

<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"/>

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

Within the Ramsar site:

54 % of the site is state owned and managed by Kiskunság National Park Directorate, others are in private ownership

In the surrounding area:

Mostly private owned

5.1.2 - Management authority

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

Kiskunság National Park Directorate

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

Zoltan VAJDA

Postal address:

H-6000 Kecskemét, Liszt F. u.19.
Hungary

E-mail address:

vajdaz@knp.hu

5.2 - Ecological character threats and responses (Management)

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

Water regulation

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Water abstraction	High impact		<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change

Agriculture and aquaculture

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Livestock farming and ranching	Low impact		<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Energy production and mining

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Oil and gas drilling	Low impact		<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change

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	Medium impact		<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Logging and wood harvesting			<input type="checkbox"/>		<input checked="" type="checkbox"/>	

Natural system modifications

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Fire and fire suppression	Medium impact		<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Dams and water management/use	Medium impact		<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Vegetation clearance/land conversion	Low impact		<input checked="" type="checkbox"/>	No change	<input type="checkbox"/>	No change
Unspecified/others			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

Invasive and other problematic species and genes

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Invasive non-native/ alien species	Medium impact		<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change

Pollution

Factors adversely affecting site	Actual threat	Potential threat	Within the site	Changes	In the surrounding area	Changes
Agricultural and forestry effluents	Medium impact		<input checked="" type="checkbox"/>	No change	<input checked="" type="checkbox"/>	No change
Unspecified			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

Climate change and severe weather

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

Please describe any other threats (optional):

a) Within the Ramsar site:

Groundwater decreasing, water regulation, extensive agricultural pollution and disturbing factors, drying out, eutrophication, low grazing pressure, invasion by alien species (e.g. *Eleagnus angustifolia*), waterfowl hunting, increasing of natural mammalian (fox) and avian (crows) predators, burning.

The most important adverse factor threatening the site's ecological character is the ground water decreasing. In the area located between the Rivers Danube and Tisza the following factors are influencing the ground water level changes: precipitation, artesian water exploitation for water supply purposes, ground water exploitation mainly for irrigation purposes, increase of areas covered by forests, water management and other factors.

From the beginning of the 1970s to the middle of the 1990s the precipitation level dropped below the average, nearly 1000 mm precipitation shortage was experienced in the area. As a result ground water level started to drop, significant amount of the previous lakes dried up. During this time extensive ground water stock exploitation also started for the purposes of irrigation, which also contributed to the further reduction of ground water level.

In the area Danube-Tisza Interfluves the factors influencing ground water reduction are as follows and their respective share in percentage also indicated: weather (50%); artesian water exploitation:(25%); ground water exploitation (6%); changes to land utilisation (10%) ; water management (7%); other (hydrocarbon exploitation (2%).

b) In the surrounding area:

Groundwater decreasing, water regulation, intensive agricultural pollution and disturbing factors, artificial forest planting, drying out, eutrophication, low or high grazing pressure, invasion by alien species (e.g. *Eleagnus angustifolia*), waterfowl hunting, increasing of natural mammalian (fox) and avian (crows) predators, burning.

5.2.2 - Legal conservation status

Global legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
UNESCO Biosphere Reserve	Kiskunsági Biosphere Reserve		partly

Regional (international) legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
EU Natura 2000	Felső-kiskunsági szikes tavak és Mklapuszta		partly

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
national park	Kiskunsági National Park		partly

5.2.3 - IUCN protected areas categories (2008)

II National Park: protected area managed mainly for ecosystem protection and recreation

5.2.4 - Key conservation measures

Legal protection

Measures	Status
Legal protection	Implemented

Habitat

Measures	Status
Hydrology management/restoration	Proposed

Other:

Legal protection: The whole site is protected by Hungarian nature conservation laws and is a Natura 2000 Special Protection Area (SPA), furthermore 90 % part of the site is Site of Community Importance (SCI) with regard to Pannonic sodic (salt steppes and marshes) habitats within the site. 70 % of the site belongs to Kiskunsági National Park, and 30 % of it is nature protection reserve (as alkaline lake protected by power of the act on nature conservation). The national park part of the site is an UNESCO Biosphere Reserve (Kiskunsági Biosphere Reserve). There are 1823 ha strictly protected area within the site in the national park territory.

Current management practices:
Two large-scale habitat restorations programmes will be carried out on the site (canal elimination and relocation).

Conservation measures proposed but not yet implemented:
Site specific management plan needs to be improved and implemented. Expanding of the national park territory is in progress towards to south direction by ca. 2000 ha sodic marshland and grassland habitat systems.

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:

Observation hides, nature educational trails, information tables and booklets are available on the site.

5.2.6 - Planning for restoration

Is there a site-specific restoration plan? Please select a value

5.2.7 - Monitoring implemented or proposed

Monitoring	Status
Water quality	Implemented
Plant species	Implemented
Birds	Implemented

General Hungarian biodiversity and bird monitoring program is run on the site. Other current research programmes are running, e.g. waterbird nutrient contribution to water quality, waterbird food resources, ecological factors of primary production, algae population dynamics, quantitative and qualitative food web structures of the characteristic sodic pans.

6 - Additional material

6.1 - Additional reports and documents

6.1.1 - Bibliographical references

Please refer to Section 6.1.2. vi. other published literature for the list of Bibliographical references.

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

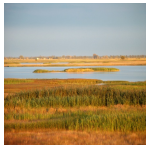
<no file available>

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:



Lake Kelemen is one of the largest of the alkaline lakes in the Kiskunság (*Mr. Tibor Utassy, 13-08-2004*)

6.1.4 - Designation letter and related data

Designation letter

<no file available>

Date of Designation