



NATURA 2000 - STANDARD DATA FORM

For Special Protection Areas (SPA),
Proposed Sites for Community Importance (pSCI),
Sites of Community Importance (SCI) and
for Special Areas of Conservation (SAC)

SITE **MT0000002**
SITENAME **L-Inħawi ta' Pembroke**

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1. SITE IDENTIFICATION

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1.1 Type B	1.2 Site code MT0000002
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1.3 Site name

L-Inħawi ta' Pembroke

1.4 First Compilation date	1.5 Update date
2004-04	2018-05

1.6 Respondent:

Name/Organisation:	Environment and Resources Authority
Address:	Hexagon House, Spencer Hill, Marsa MRS 1441
Email:	natura.2000@era.org.mt

1.7 Site indication and designation / classification dates

Date site classified as SPA:	0000-00
National legal reference of SPA designation	No data
Date site proposed as SCI:	2004-04
Date site confirmed as SCI:	2008-03
Date site designated as SAC:	2016-12
National legal reference of SAC designation:	Government Notice No. 1379 of 2016, in accordance with the Flora, Fauna and Natural Habitats Protection Regulations, 2016 (S.L. 549.44)

2. SITE LOCATION

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2.1 Site-centre location [decimal degrees]:

Longitude

14.4792

Latitude

35.9342

2.2 Area [ha]:

96.8

2.3 Marine area [%]

0.0

2.4 Sitelength [km]:

0.0

2.5 Administrative region code and name

NUTS level 2 code

Region Name

MT00	Malta
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2.6 Biogeographical Region(s)

Mediterranean (100.0 %)

3. ECOLOGICAL INFORMATION

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3.1 Habitat types present on the site and assessment for them

Annex I Habitat types						Site assessment			
Code	PF	NP	Cover [ha]	Cave [number]	Data quality	A B C D	A B C		
						Representativity	Relative Surface	Conservation	Global
1240 B			10.29		G	B	B	B	B
1410 B			0.3		G	C	B	C	C
3170 B			0.31		G	B	B	B	B
5410 B			35.44		G	B	B	B	B
5420 B			0.13		G	C	A	C	C
6220 B			26.73		G	B	B	C	C

PF: for the habitat types that can have a non-priority as well as a priority form (6210, 7130, 9430) enter "X" in the column PF to indicate the priority form.

NP: in case that a habitat type no longer exists in the site enter: x (optional)

Cover: decimal values can be entered

Caves: for habitat types 8310, 8330 (caves) enter the number of caves if estimated surface is not available.

Data quality: G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation)

3.2 Species referred to in Article 4 of Directive 2009/147/EC and listed in Annex II of Directive 92/43/EEC and site evaluation for them

Species	Population in the site	Site assessment
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G	Code	Scientific Name	S	NP	T	Size		Unit	Cat.	D.qual.	A B C D			
						Min	Max				Pop.	Con.	Iso.	Glo.
P	6302	Anacamptis pyramidalis	Yes		p				R	G	C	B	A	C
P	4092	Elatine gussonei			p				R	P	A	C	A	C
P	4105	Ophrys melitensis	Yes		p					DD	A	B	A	C
P	4106	Orobanche densiflora			p				P	P	A	C	A	C

Group: A = Amphibians, B = Birds, F = Fish, I = Invertebrates, M = Mammals, P = Plants, R = Reptiles
S: in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes

NP: in case that a species is no longer present in the site enter: x (optional)

Type: p = permanent, r = reproducing, c = concentration, w = wintering (for plant and non-migratory species use permanent)

Unit: i = individuals, p = pairs or other units according to the Standard list of population units and codes in accordance with Article 12 and 17 reporting (see [reference portal](#))

Abundance categories (Cat.): C = common, R = rare, V = very rare, P = present - to fill if data are deficient (DD) or in addition to population size information

Data quality: G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation); VP = 'Very poor' (use this category only, if not even a rough estimation of the population size can be made, in this case the fields for population size can remain empty, but the field "Abundance categories" has to be filled in)

3.3 Other important species of flora and fauna (optional)

4. SITE DESCRIPTION

4.1 General site character

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Habitat class	% Cover
N05	10.63
N06	0.31
N03	0.31
N09	48.99
N23	3.01
N08	36.75
Total Habitat Cover	100

4.2 Quality and importance

Pembroke supports six habitat types under Annex I of the EU Habitats Directive of which two are priority habitats – 'Pseudo-steppe with grasses and annuals of the Thero-Brachypodietea' and 'Mediterranean Temporary Ponds' - the former habitat type being found throughout the area and is characterised by an assemblage of grasses (namely *Brachypodium retusum*), composites, leguminous plants and bulbous plants. The mosaic of shallow karstic terrain and deep karren formations at Pembroke has created a blend of garrigue and rocky steppe. The garrigue in Pembroke is co-dominated by *Anthyllis hermanniae* subsp. *melitensis* and *Thymra capitata*. The latter is an important floristic element of the Maltese Islands, being often a dominant shrub of Maltese garrigues, such as those found at Pembroke. Rocky steppe is dominated by *Hyparrhenia hirta* and *Drimia maritima* (= *Urginea pancration* - listed in the National Red Data book, due to its restricted distribution in the Mediterranean being confined to Malta, Sicily, Corsica and Mallorca). A watercourse is present at Pembroke in the north-easterly direction. Yet, the vegetation found in this area is not characteristic of watercourses. The upper part supports patches of typical garrigue communities, while further downstream the vegetation of the gully bed becomes more herbaceous. Pembroke supports a number of endemic species such as the low-lying species *Allium lojaconoi* which is not uncommon on rocky ground especially not far from the coast. It is present at Pembroke as one of the largest and best

populations. Also important is the Maltese Fleabane, *Chiliadenus bocconei*, which is abundant in localised patches. It is the commonest of the Maltese endemics and is quite frequent in maritime garrigues. The littoral fringe of the maritime garrigue is characterised by *Limbaria crithmoides* (= *Inula crithmoides*), *Crithmum maritimum*, *Crucianella rupestris*, and small and very restricted populations of three *Limonium* spp., two of which are endemic. The phrygana habitat occurs as a mosaic with either labiate garrigue dominated by *Thymra capitata* and *Teucrium fruticans* and/or with andropogonid grass steppes dominated by *Hyparrhenia hirta*. The Mediterranean salt meadows habitat is very limited in distribution and is confined to only one area in Pembroke. It is dominated by small bushes of *Juncus acutus*. A very small endangered population of *Sarcopoterium spinosum* is present at Pembroke as two very small sub-populations. It is characteristic of the Eastern Mediterranean Phrygana and may represent a relict community (strictly protected through national legislation, and listed in the national Red Data Book as an endangered species with a restricted distribution in the Mediterranean and the Maltese Islands), which is unknown from any other locality in Malta. Locally it co-occurs with species characteristic of garrigue communities - such as *Thymra capitata* and *Teucrium fruticans*; *Anthyllis hermanniae* subsp. *melitensis* dominated phrygana; and *ermes* communities dominated by species such as *Asphodelus aestivus* and *Drimia maritima* (= *Urginea pancration*). Areas with shrubs such as the high garrigue appear to provide a habitat for the Mediterranean *Chamaeleo chamaeleon*, which is protected through national legislation. At least some of the rainwater rockpools that form on the karstland at Pembroke are expected to be important for fauna that are linked to such habitats (for example: fairy shrimps, clam shrimps); further studies are necessary to assess this. *Elatine gussonei*, an Annex II species of the Habitats Directive, is known from temporary rainwater rockpools at Pembroke. This Pelago-Maltese endemic, being confined to the Maltese Islands and Lampedusa, is listed in the National Red Data Book as rare with a restricted distribution in the Maltese Islands and the Mediterranean. It is also strictly protected through national legislation. *Damasonium bourgaei*, has also been reported in the area. This species is locally very rare and is listed in the Red Data Book as vulnerable with a restricted, distribution in the Maltese Islands and the Mediterranean. The most commonly encountered aquatic flora in rock pools are *Ranunculus saniculaefolius* and *Chara* spp. *Mentha pulegium* and *Sedum caeruleum* are also present in the majority of cases. *Zannichellia melitensis* has also been recorded.

4.3 Threats, pressures and activities with impacts on the site

The most important impacts and activities with high effect on the site

Negative Impacts			
Rank	Threats and pressures [code]	Pollution (optional) [code]	inside/outside [i o b]
M	E03.04		i
M	G04.01		i
M	D01.01		i
H	G05.01		i
L	J01		i
L	E03.03		i
M	B01.02		i
H	E03.01		i
M	I01		i
M	E01		o

Positive Impacts			
Rank	Activities, management [code]	Pollution (optional) [code]	inside/outside [i o b]

Rank: H = high, M = medium, L = low

Pollution: N = Nitrogen input, P = Phosphor/Phosphate input, A = Acid input/acidification, T = toxic inorganic chemicals, O = toxic organic chemicals, X = Mixed pollutions

i = inside, o = outside, b = both

4.4 Ownership (optional)

4.5 Documentation

5. SITE PROTECTION STATUS (optional)

5.1 Designation types at national and regional level:

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5.2 Relation of the described site with other sites:

5.3 Site designation (optional)

6. SITE MANAGEMENT

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6.1 Body(ies) responsible for the site management:

Organisation:	Environment and Resources Authority
Address:	
Email:	natura.2000@era.org.mt

6.2 Management Plan(s):

An actual management plan does exist:

<input checked="" type="checkbox"/> Yes	Name: L-Inħawi ta' Pembroke Link: https://era.org.mt/en/Pages/Natura-2000-Management-Planning.aspx
<input type="checkbox"/> No, but in preparation	
<input type="checkbox"/> No	

6.3 Conservation measures (optional)

7. MAP OF THE SITES

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INSPIRE ID:

Map delivered as PDF in electronic format (optional)

Yes No

Reference(s) to the original map used for the digitalisation of the electronic boundaries (optional).

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