# 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 **BG0000211**

SITENAME **Tvardishka planina**

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## 1. SITE IDENTIFICATION

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| 1.1 Type | 1.2 Site code |
|---|---|
| B | BG0000211 |

### 1.3 Site name

Tvardishka planina

| 1.4 First Compilation date | 1.5 Update date |
|---|---|
| 2004-10 | 2018-12 |

### 1.6 Respondent:

| | |
|---|---|
| **Name / Organisation:** | Ministry of Environment and Water, “National Nature Protection Service” Directorate |
| **Address:** | Sofia Kn. Maria Luiza Blvd. 22 1000 Sofia |
| **Email:** | natura2000@moew.government.bg |

### 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:** | 2007-10 |
| **Date site confirmed as SCI:** | 2008-12 |
| **Date site designated as SAC:** | No data |

| | |
|---|---|
| **National legal reference of SAC designation:** | No data |

| | |
|---|---|
| **Explanation(s):** | Adopted by Council of Ministers Decision No. 661/16.10.2007 (promulgated SG 85/2007). |

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## 2. SITE LOCATION

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### 2.1 Site-centre location [decimal degrees]:

| Longitude | Latitude |
|---|---|
| 26.060000000000002 | 42.84027777777778 |

### 2.2 Area [ha]:

38649.5295

### 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 |
|---|---|
| BG32 | Северен централен / Severen tsentralen |
| BG34 | Югоизточен / Yugoiztochen |

### 2.6 Biogeographical Region(s)

Continental (65.4 %)

Alpine (34.6 %)

## 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 |
| 4060 | | | 36.04 | | M | C | C | B | B |
| 6210 | | | 211.42 | | M | B | C | B | B |
| 62A0 | | | 238.87 | | M | C | C | B | B |
| 6430 | | | 44.02 | | M | C | C | B | B |
| 8220 | | | 53.22 | | M | C | C | B | B |
| 8230 | | | 42.21 | | M | B | C | B | B |
| 8310 | | | | 15 | G | B | C | B | B |
| 9110 | | | 30.91 | | M | A | C | B | B |
| 9130 | | | 3733.82 | | M | A | C | B | A |
| 9150 | | | 7220.46 | | M | A | B | B | A |
| 9170 | | | 4389.02 | | M | B | C | B | B |
| 9180 | | | 1111.25 | | M | B | B | B | B |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 91AA | | | 9.00534 | | G | C | C | C | C |
| 91E0 | | | 2.01 | | G | D | | | |
| 91G0 | | | 2092.0 | | M | C | B | C | C |
| 91M0 | | | 1752.76 | | M | A | C | B | B |
| 9530 | | | 30.68 | | M | B | C | B | B |

**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 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G | Code | Scientific Name | S | NP | T | Size | | Unit | Cat. | D.qual. | A\|B\|C\|D | A\|B\|C | | |
| | | | | | | Min | Max | | | | Pop. | Con. | Iso. | Glo. |
| I | 1093 | Austropotamobius torrentium | | | p | 74409 | 74409 | i | C | M | C | A | C | A |
| M | 1308 | Barbastella barbastellus | | | p | 176 | 302 | i | R | M | C | C | C | C |
| F | 5088 | Barbus cyclolepis | | | p | | | | C | DD | C | B | C | B |
| F | 1138 | Barbus meridionalis | | | p | 290397 | 290397 | i | C | G | C | A | C | A |
| A | 1193 | Bombina variegata | | | p | 1 | 1 | localities | V | P | C | A | C | A |
| M | 1352 | Canis lupus | | | p | 5 | 6 | i | | G | C | A | C | A |
| I | 1088 | Cerambyx cerdo | | | p | | | | R | DD | C | B | C | B |
| I | 4046 | Cordulegaster heros | | | p | 9 | 9 | localities | R | G | C | A | A | A |
| F | 1163 | Cottus gobio | | | p | 21175 | 21175 | i | R | G | C | B | A | B |
| R | 5194 | Elaphe sauromates | | | p | | | localities | P | DD | C | A | C | B |
| R | 1220 | Emys orbicularis | | | p | 1 | 1 | localities | V | P | C | A | C | B |
| I | 1065 | Euphydryas aurinia | | | p | 31820 | 63354 | i | R | M | C | A | A | A |
| I | 6199 | Euplagia quadripunctaria | | | p | 6881 | 12329 | i | V | P | C | A | C | A |
| I | 1083 | Lucanus cervus | | | p | 91231 | 179469 | i | R | M | C | B | C | B |
| M | 1355 | Lutra lutra | | | p | 4 | 5 | i | | G | C | A | C | B |
| M | 1310 | Miniopterus schreibersii | | | p | | | | P | DD | D | | | |
| I | 1089 | Morimus funereus | | | p | 246824 | 286696 | i | R | M | C | B | C | B |
| M | 1323 | Myotis bechsteinii | | | p | 211 | 422 | i | R | M | C | C | C | C |
| M | 1307 | Myotis blythii | | | p | 11 | 50 | i | R | G | C | B | C | C |
| M | 1316 | Myotis capaccinii | | | p | | | | P | DD | D | | | |
| M | 1321 | Myotis emarginatus | | | p | 11 | 50 | i | P | M | C | B | C | C |
| M | 1324 | Myotis myotis | | | p | 11 | 50 | i | R | G | C | B | C | C |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | 4053 | Paracaloptenus caloptenoides | | | p | 4 | 4 | localities | R | M | C | B | B | B |
| I | 4042 | Polyommatus eroides | | | p | | | | P | DD | C | C | C | C |
| M | 1305 | Rhinolophus euryale | | | p | 11 | 50 | i | P | G | C | B | C | C |
| M | 1304 | Rhinolophus ferrumequinum | | | p | 101 | 250 | i | P | G | C | B | C | B |
| M | 1303 | Rhinolophus hipposideros | | | p | 101 | 250 | i | C | G | C | B | C | B |
| F | 5339 | Rhodeus amarus | | | p | 3963933 | 3963933 | i | C | G | C | A | C | B |
| F | 6145 | Romanogobio uranoscopus | | | p | 7079 | 7079 | i | R | G | C | A | A | A |
| I | 1087 | Rosalia alpina | | | p | 129089 | 235093 | i | R | M | C | B | C | B |
| F | 1146 | Sabanejewia aurata | | | p | 514586 | 514586 | i | C | G | B | A | C | A |
| M | 1335 | Spermophilus citellus | | | p | | | | P | DD | D | | | |
| R | 1219 | Testudo graeca | | | p | | | localities | P | DD | C | C | C | C |
| R | 1217 | Testudo hermanni | | | p | | | localities | P | DD | C | A | C | A |
| A | 1171 | Triturus karelinii | | | p | | | localities | P | DD | C | A | C | B |
| I | 1032 | Unio crassus | | | p | 22614 | 22614 | i | R | M | C | B | C | B |
| M | 1354 | Ursus arctos | | | p | 3 | 3 | i | | G | C | A | B | A |
| M | 2635 | Vormela peregusna | | | p | 1 | 1 | localities | P | P | C | B | C | B |

**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)

| Species | | | | | Population in the site | | | | Motivation | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Group | CODE | Scientific Name | S | NP | Size | | Unit | Cat. | Species Annex | | Other categories | | | |
| | | | | | Min | Max | | C\|R\|V\|P | IV | V | A | B | C | D |
| R | | Ablepharus kitaibelii | | | | | | P | | | | | X | |
| P | | Acer heldreichii | | | | | | C | | | | X | | |
| P | | Anacamptis pyramidalis | | | | | | R | | | | | X | |
| P | | Anemone sylvestris | | | | | | R | | | X | | | |
| P | | Angelica pancicii | | | | | | C | | | | X | | |
| P | | Anthemis virescens | | | | | | R | | | | | X | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | | Apatura iris | | | | | | C | | | | | | X |
| I | | Apatura metis | | | | | | C | | | | | X | |
| P | | Aquilegia nigricans | | | | | | R | | | X | | | |
| P | | Aristolochia rotunda | | | | | | R | | | X | | | |
| P | | Atropa bella-donna | | | | | | C | | | X | | | |
| P | | Betonica bulgarica | | | | | | C | | | | X | | |
| I | | Brenthis hecate | | | | | | C | | | | | | X |
| A | | Bufo viridis | | | | | | P | | | | | X | |
| P | | Cephalanthera longifolia | | | | | | R | | | | | X | |
| P | | Cephalanthera rubra | | | | | | C | | | | | X | |
| P | | Chamaecytisus frivaldszkyanus | | | | | | R | | | | X | | |
| P | | Coeloglossum viride | | | | | | R | | | | | X | |
| P | | Colchicum turcicum | | | | | | C | | | | X | | |
| R | | Coluber caspius | | | | | | P | | | | | X | |
| R | | Coronella austriaca | | | | | | P | | | | | X | |
| P | | Crocus veluchensis | | | | | | C | | | | X | | |
| P | | Dactylorhiza saccifera | | | | | | C | | | | | X | |
| M | | Dryomys nitedula | | | | | | P | | | | | X | |
| I | | Duvalius hanae | | | | | | R | | | | X | | |
| R | | Elaphe longissima | | | | | | P | | | | | X | |
| P | | Epipactis helleborine | | | | | | R | | | | | X | |
| M | | Eptesicus serotinus | | | | | | C | | | | | X | |
| I | | Erebia medusa | | | | | | C | | | | | | X |
| M | | Erinaceus concolor | | | | | | C | | | | | | X |
| M | | Felis silvestris | | | | | | P | | | X | | | |
| P | | Festuca balcanica | | | | | | R | | | | X | | |
| I | | Formica rufa | | | | | | R | | | | | X | |
| P | | Fritillaria graeca | | | | | | R | | | X | | | |
| P | | Fritillaria pontica | | | | | | V | | | X | | | |
| P | | Galanthus nivalis | | | | | | R | | | X | | | |
| P | | Gentianella bulgarica | | | | | | C | | | | X | | |
| M | | Glis glis | | | | | | P | | | | | X | |
| P | | Groenlandia densa | | | | | | R | | | X | | | |
| P | | Hieracium tschamkoriense | | | | | | R | | | | X | | |
| A | | Hyla arborea | | | | | | P | | | | | X | |
| M | | Hypsugo savii | | | | | | C | | | | | X | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | | Lacerta viridis | | | | | | C | | | | | X | |
| P | | Lilium jankae | | | | | | R | | | | X | | |
| I | | Maculinea arion | | | | | | C | | | | | X | |
| M | | Martes foina foina | | | | | | P | | | | | X | |
| M | | Martes martes | | | | | | P | | | X | | | |
| I | | Melitaea aurelia | | | | | | C | | | | | | X |
| P | | Micromeria frivaldszkyana | | | | | | R | | | | | X | |
| M | | Muscardinus avellanarius | | | | | | P | | | | | | X |
| M | | Mustela nivalis | | | | | | P | | | X | | | |
| M | | Nannospalax leucodon | | | | | | P | | | | | X | |
| R | | Natrix tessellata | | | | | | C | | | | | X | |
| M | | Neomys anomalus | | | | | | P | | | | | X | |
| M | | Neomys fodiens | | | | | | P | | | | | X | |
| P | | Neottia nidus-avis | | | | | | C | | | | | X | |
| M | | Nyctalus noctula | | | | | | C | | | | | X | |
| P | | Ophrys cornuta | | | | | | R | | | | | X | |
| P | | Orchis coriophora | | | | | | R | | | | | X | |
| P | | Orchis simia | | | | | | R | | | | | X | |
| I | | Parnassius apollo | | | | | | C | | | | | X | |
| F | | Phoxinus phoxinus | | | | | | C | | | | | | X |
| M | | Pipistrellus pipistrellus | | | | | | C | | | | | X | |
| P | | Platantera bifolia | | | | | | C | | | | | X | |
| M | | Plecotus auritus | | | | | | C | | | | | X | |
| R | | Podarcis muralis | | | | | | C | | | | | X | |
| I | | Poecilimon marmaraensis | | | | | | R | | | X | | | |
| I | | Polyommatus aroaniensis | | | | | | C | | | | | | X |
| P | | Pulsatilla halleri | | | | | | R | | | X | | | |
| I | | Pyrgus cinarae | | | | | | C | | | | | | X |
| A | | Rana dalmatina | | | | | | C | | | | | X | |
| F | | Salmo trutta fario | | | | | | C | | | | | | X |
| P | | Satureja rumelica | | | | | | R | | | | X | | |
| M | | Sciurus vulgaris | | | | | | C | | | | | X | |
| P | | Sempervivum erythraeum | | | | | | R | | | | | X | |
| P | | Taxus baccata | | | | | | R | | | X | | | |
| I | | Thymelicus acteon | | | | | | C | | | | | | X |
| P | | Verbascum adrianopolitanum | | | | | | R | | | | X | | |
| R | | Vipera ammodytes | | | | | | P | | | | | X | |

**Group:** A = Amphibians, B = Birds, F = Fish, Fu = Fungi, I = Invertebrates, L = Lichens, M = Mammals, P = Plants, R

= Reptiles

**CODE:** for Birds, Annex IV and V species the code as provided in the reference portal should be used in addition to the scientific name

**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)

**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**)

**Cat.:** Abundance categories: C = common, R = rare, V = very rare, P = present

**Motivation categories: IV, V:** Annex Species (Habitats Directive), **A:** National Red List data; **B:** Endemics; **C:** International Conventions; **D:** other reasons

## 4. SITE DESCRIPTION

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### 4.1 General site character

| Habitat class | % Cover |
|---|---|
| N16 | 55.0 |
| N19 | 1.0 |
| N20 | 1.0 |
| N17 | 8.0 |
| N22 | 1.0 |
| N11 | 1.0 |
| N07 | 6.0 |
| N06 | 4.0 |
| N10 | 12.0 |
| N23 | 2.0 |
| N08 | 8.0 |
| N21 | 1.0 |
| **Total Habitat Cover** | 100 |

**Other Site Characteristics**

The south part of the site and the slope are covered by broad-leaved oak and beech tree forests, while the north slopes are open hilly areas, covered by meadows and pastures.

### 4.2 Quality and importance

The site is important for carnivour and bat species. The zone is one of the few zones in Bulgaria where large percent /50%/ of the forest are occupied of habitates – 9150- Medio-European limestone beech forests of the Cephalanthero-Fagion, 9130 Asperulo-Fagetum beech forests and 9110 Luzulo-Fagetum beech forest.The zone have considerable value through the big number of species (38) with conservation statut.The site protects important habitats for rare, critical endangered and endemic plants as Chamecytisus frivaldzkyanus, Fritillaria pontica, Saturea rumelica, Verbascum adrianopolitanum, Taxus baccata, Anemone sylvestris, Aquilegia nigricans, Coeloglossum viride, Crocus veluchensis, Fritillaria graeca, Hieracium tschamkoriense. In the territory of State forestry board “Buinovci” was established natural population of Abies alba in lowest above sea-level in the country.

### 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] |
| L | F03.02.03 | | o |
| L | C02 | | i |

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

| | | | |
|---|---|---|---|
| L | E03 | | o |
| M | D01.02 | | i |
| M | A04 | | o |
| M | E03.01 | | i |
| L | C02 | | o |
| H | B02.02 | | i |
| L | E03.03 | | i |
| L | E02 | | o |
| M | B02.02 | | o |
| M | D02 | | o |
| M | K01.01 | | i |
| M | A04 | | i |
| L | H05 | | i |
| L | D02.01 | | i |
| L | F03.02.03 | | i |
| M | E01 | | o |
| M | E04.01 | | o |
| M | G02.04 | | i |
| L | H | | o |
| M | B01.02 | | i |
| M | E01.03 | | o |
| M | B01.02 | | o |

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

Initial proposal and description of the site made by Alexandar Tashev - Forestry University, Sofia; Konstantin Dichev, Dilian Georgiev, Dimitar Bechev - Green Balkans Federation of Nature Conservation NGOs.Initially listed publications: "Arnold E., J. Burton, D. Ovenden, 1992. A field guide to the Reptiles and Amphibians of Britain and Europe. Collins Publ., London, 272 pp" Cramp, St. 1983. Handbook of the Birds of Europe the Middle East and North Africa. The Birds of the Western Palearctic. Volume 4. Oxford University Press, 48-62 pp."Cramp, St., K E L Simmons et al. 1977 Handbook of the Birds of Europe the Middle East and North Africa. The Birds of the Western Palearctic. Volume I : Ostrich to Ducks. Oxford University Press."Karapetkova M., M. Zhivkov, 1995. Fish in Bulgaria. Sofia. "Gea Libris", 247 pp. Macdonald D., P. Barret, 1993. Mammals of Britain & Europe. Collins field guide, Harper Collins Publ., London, 312 pp." Mihov S., 2002. Field guide of amphibians in Bulgaria, Bourgas Wetlands, 45 pp."Nankinov, D., S. Simeonov, T. Michev, B. Ivanov. 1997. Fauna of Bulgaria. Vol. 26: Aves, Part ²². Sofia, Academic Publishing House "Prof. M. Drinov"."Ornithological database of Green Balkans Federation of Nature Conservation NGOs. "Patev, P. 1950. Birds in Bulgaria. BAS, Sofia, 364 pp. "Roche J., 2000. Die Vogelstimmen Europas auf 4 CDs - Rufe und Gesange. "Kosmos"."Simeonov S., T. Michev. 1991. Birds of the Balkan Peninsula. Peter Beron, Sofia, 245 pp."Simeonov, S., T. Michev, 1991. The birds of the Balkan Peninsula. "Peter Beron", Sofia, 249 pp."Simeonov, S., T. Michev, D. Nankinov. 1990. Fauna in Bulgaria. Vol. 20 Aves. Part ². S., BAS, 350 pp."Spiridonov G., NNPS, Ministry of Environment; Meshinev T., Velchev V., Apostolova I., Inst. Of Botany, BASci.; Iankov P., BSPB/BirdLife-Bulgaria; Inst. Of Zoology, BASci., 1996. CORINE Biotopes Database"Swensson L., 1992. Identification guide to European Passerines. Stockholm."Swensson L., P. Grant, 2000. Bird guide. Harper Collins Publishers, London, 392 pp.Data revised by the National Forestry Board and Bulgarian Academy of Sciences (http://www.bas.bg). New data provided by project "Mapping and assessment of the conservation status of the natural habitats and species - Phase 1" (see link).

Link(s): http://natura2000.moew.government.bg/Home/ProtectedSite?code=BG0000211&siteType=HabitatDirective

## 5. SITE PROTECTION STATUS (optional)

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### 5.1 Designation types at national and regional level:

| Code | Cover [%] |
|---|---|
| BG00 | 99.4915 |
| BG06 | 0.0933 |

| Code | Cover [%] |
|---|---|
| BG01 | 0.2171 |
| BG03 | 0.0667 |

| Code | Cover [%] |
|---|---|
| BG04 | 0.1314 |

### 5.2 Relation of the described site with other sites:

designated at national or regional level:

| Type code | Site name | Type | Cover [%] |
|---|---|---|---|
| BG01 | Byala krava | + | 0.21711764465544015 |
| BG04 | haidushki chukar | + | 0.10306170372094005 |
| BG04 | Sini bryag | + | 0.02834000340281367 |
| BG06 | Aglikina polyana | + | 0.09330089840589109 |
| BG03 | Vodopada na reka Miikovska | * | 0.0011 |
| BG03 | Nahodishte na tis | + | 0.06561744701921515 |

### 5.3 Site designation (optional)

## 6. SITE MANAGEMENT

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### 6.1 Body(ies) responsible for the site management:

| | |
|---|---|
| Organisation: | Regional Inspectorate of Environment and Water: Veliko Tarnovo, Stara Zagora, Burgas, Shumen |
| Address: | |
| Email: | |

### 6.2 Management Plan(s):

An actual management plan does exist:

- [ ] Yes
- [ ] No, but in preparation
- [x] 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
- [x] No

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