

## Appendix 5 – Tabular summary of information on resources of protected species of plant and animals in the area of Task and its surroundings

This appendix to the Environmental Management Plan (EMP) for Task *1B.6/1 Nowa Sól stage I and II* includes a summary of information on resources of protected species of plants and animals in the area of Task and its surroundings.

Table 1. Specification of protected species of plants within the Task area

No.	Name	Protection status	Regional/national Red List assessment	Population resources (specimens or area)	No of stands	Location
<b>Vascular plants</b>						
1.	Mouse garlic <i>Allium angulosum</i>	PP	endangered in Lower Silesia	abundant	5	on meadows in the embanked area of the Czarna Struga, in the lower section of the river
2.	Broad-leaved helleborine <i>Epipactis helleborine</i>	PP	none	tens	8	in forests in the embanked area of the Odra, downstream of the Czarna Struga estuary
3.	Dwarf everlast <i>Helichrysum arenarium</i>	PP	none	common	abundant	widespread
<u>Protection status: PP – partial protection</u>						

Table 2. Specification of protected species of invertebrates within the Task area

No.	Name	Protection status	Estimated number of specimens	Occurrence
1.	Bumblebee <i>Bombus spp.</i>	PP	abundant	within the whole area of Task
2.	Beetles <i>Carabus spp.</i>	PP	abundant	within the whole area of Task
3.	Green gomphid <i>Ophiogomphus cecilia</i>	SP, HDII	5-6 sp.	on meadows near the Odra river
4.	Yellow-spotted whiteface <i>Leucorrhinia pectoralis</i>	SP, HDII	1 sp.	near the planned pumping station
5.	Large copper <i>Lycaena dispar</i>	SP, HDII	no data	on the left-bank flood embankment of the Czarna Struga river (potential habitat)
6.	Dusky large blue butterfly <i>Phengaris nausithous</i> ( <i>Maculinea nausithous</i> )	SP, HDII	10-20 sp.	on meadows along the Czarna Struga river, in the downstream reach of the river
7.	Scarce swallowtail <i>Iphiclides podalirius</i>	PP	no data	on the left-bank flood embankment of the Czarna Struga river
8.	Whorl snails <i>Vertigo spp.</i>	PP	no data	potentially in damp places in the area of Task
<u>Protection status:</u> SP – strict protection, PP – partial protection, HDII – Annex II of the Habitat Directive				

Table 3. Specification of protected fish species within the range of impact of the Task

No.	Name	Protection status	Odra river	Czarna Struga river
1.	White-finned gudgeon <i>Romanogobio albipinnatus</i>	PP, HDII	+	–
2.	European bitterling <i>Rhodeus amarus</i>	PP	+	–
3.	Spined loach <i>Cobitis taenia</i>	PP	+	+
4.	European weatherfish <i>Misgurnus fossilis</i>	PP	+	+
<u>Protection status:</u> PP – partial protection, HDII – Annex II of the Habitat Directive				

Table 4. Specification of protected species of amphibians and reptiles within the Task area

No.	Name	Protection status	Occurrence
1.	Smooth newt <i>Triturus vulgaris</i>	PP	water reservoirs in the area of Task
2.	Great crested newt <i>Triturus cristatus</i>	SP, HDII	water reservoirs in the area of Task (potential habitat)
3.	Common toad <i>Bufo bufo</i>	PP	within the whole area of Task
4.	European green toad <i>Pseudepidalea viridis</i>	SP	within the whole area of Task
5.	Common frog <i>Rana temporaria</i>	PP	within the whole area of Task
6.	Edible frog <i>Pelophylax esculentus</i>	PP	water reservoirs in the area of Task
7.	Marsh frog <i>Pelophylax ridibundus</i>	PP	water reservoirs in the area of Task
8.	Fire-bellied toad <i>Bombina bombina</i>	SP, HDII	water reservoirs in the area of Task (potential habitat)
<u>Protection status:</u> SP – strict protection, PP – partial protection, HDII – Annex II of the Habitat Directive			

Table 5. Specification of protected species of birds within the Task area

No.	Name	Protection status	Number of breeding pairs	Status in the area
1.	Mute swan <i>Cygnus olor</i>	SP	0	a, f
2.	Garganey <i>Anas querquedula</i>	SP	0	a, f
3.	Shoveler <i>Anas clypeata</i>	SP	0	a, f
4.	Quail <i>Coturnix coturnix</i>	SP	1	b, f
5.	Little grebe <i>Tachybaptus ruficollis</i>	SP	2	b, f
6.	Grey heron <i>Ardea cinerea</i>	SP	0	a, f
7.	Black kite <i>Milvus migrans</i>	SP, BDI	0	a, f
8.	Red kite <i>Milvus milvus</i>	SP, BDI	0	a, f
9.	Marsh harrier <i>Circus aeruginosus</i>	SP	0	a, f
10.	Common buzzard <i>Buteo buteo</i>	SP	0	a, f
11.	Lapwing <i>Vanellus vanellus</i>	SP	2	b, f
12.	Wood sandpiper <i>Tringa glareola</i>	SP	0	a, f
13.	Black-headed gull <i>Larus ridibundus</i>	SP	0	a, f
14.	Collared dove <i>Sterptopelia decaocto</i>	SP	common	b, f
15.	Common cuckoo <i>Cuculus canorus</i>	SP	common	b, f
16.	Hoopoe <i>Upupa epops</i>	SP	1	b, f
17.	Eurasian wryneck <i>Jynx torquilla</i>	SP	common	b, f
18.	Green woodpecker <i>Picus viridis</i>	SP	1	b, f
19.	Black woodpecker <i>Dryocopus martius</i>	SP, BDI	0	a, f
20.	Great spotted woodpecker <i>Dendrocopos major</i>	SP	common	b, f
21.	Middle spotted woodpecker <i>Dendrocopos medius</i>	SP, BDI	2	b, f
22.	Lesser spotted woodpecker <i>Dendrocopos minor</i>	SP	1	b, f
23.	Eurasian skylark <i>Alauda arvensis</i>	SP	common	b, f
24.	Barn swallow <i>Hirundo rustica</i>	SP	common	b, f
25.	Common house martin <i>Delichon urbica</i>	SP	common	b, f
26.	Tree Pipit <i>Anthus trivialis</i>	SP	common	b, f
27.	Meadow pipit <i>Anthus pratensis</i>	SP	common	b, f
28.	Yellow wagtail <i>Motacilla flava</i>	SP	common	b, f
29.	White wagtail <i>Motacilla alba</i>	SP	common	b, f
30.	Eurasian wren <i>Troglodytes troglodytes</i>	SP	common	b, f
31.	Dunnock <i>Prunella modularis</i>	SP	common	b, f
32.	European robin <i>Erithacus rubecula</i>	SP	common	b, f
33.	Common nightingale <i>Luscinia megarhynchos</i>	SP	common	b, f
34.	Thrush nightingale <i>Luscinia luscinia</i>	SP	1	b, f

No.	Name	Protection status	Number of breeding pairs	Status in the area
35.	Black redstart <i>Phoenicurus ochruros</i>	SP	common	b, f
36.	Redstart <i>Phoenicurus phoenicurus</i>	SP	common	b, f
37.	Whinchat <i>Saxicola rubetra</i>	SP	common	b, f
38.	European stonechat <i>Saxicola rubicola</i>	SP	3	b, f
39.	Common blackbird <i>Turdus merula</i>	SP	common	b, f
40.	Fieldfare <i>Turdus pilaris</i>	SP	common	b, f
41.	Song thrush <i>Turdus philomelos</i>	SP	common	b, f
42.	Grasshopper warbler <i>Locustella naevia</i>	SP	several	b, f
43.	River warbler <i>Locustella fluviatilis</i>	SP	1	b, f
44.	Sedge warbler <i>Acrocephalus schoenobaenus</i>	SP	common	b, f
45.	Marsh warbler <i>Acrocephalus palustris</i>	SP	common	b, f
46.	Reed warbler <i>Acrocephalus scirpaceus</i>	SP	common	b, f
47.	Great reed warbler <i>Acrocephalus arundinaceus</i>	SP	5	b, f
48.	Icterine warbler <i>Hippolais icterina</i>	SP	common	b, f
49.	Lesser whitethroat <i>Sylvia curucca</i>	SP	common	b, f
50.	Common whitethroat <i>Sylvia communis</i>	SP	common	b, f
51.	Garden warbler <i>Sylvia borin</i>	SP	common	b, f
52.	Eurasian blackcap <i>Sylvia atricapilla</i>	SP	common	b, f
53.	Common chiffchaff <i>Phylloscopus collybita</i>	SP	common	b, f
54.	Willow warbler <i>Phylloscopus trochilus</i>	SP	common	b, f
55.	Long-tailed tit <i>Aegithalos caudatus</i>	SP	common	b, f
56.	Marsh tit <i>Poecilla palustris</i>	SP	common	b, f
57.	Willow tit <i>Poecilla montana</i>	SP	common	b, f
58.	Eurasian blue tit <i>Cyanistes careuleus</i>	SP	common	b, f
59.	Great tit <i>Parus major</i>	SP	common	b, f
60.	Eurasian nuthatch <i>Sitta europaea</i>	SP	common	b, f
61.	Eurasian treecreeper <i>Certhia familiaris</i>	SP	common	b, f
62.	Short-toed treecreeper <i>Certhia brachydactyla</i>	SP	common	b, f
63.	Oriole <i>Oriolus oriolus</i>	SP	common	b, f
64.	Red-backed shrike <i>Lanius collurio</i>	SP, BDI	several	b, f
65.	Great grey shrike <i>Lanius excubitor</i>	SP	1	b, f
66.	Hooded crow <i>Corvus cornix</i>	PP	common	b, f
67.	Common raven <i>Corvus corax</i>	PP	0	a, f
68.	Jackdaw <i>Corvus monedula</i>	PP	0	a, f
69.	Rook <i>Corvus frugilegus</i>	PP	0	a, f

No.	Name	Protection status	Number of breeding pairs	Status in the area
70.	Magpie <i>Pica pica</i>	PP	common	b, f
71.	Eurasian jay <i>Garrulus glandarius</i>	SP	common	b, f
72.	Common starling <i>Sturnus vulgaris</i>	SP	common	b, f
73.	Eurasian tree sparrow <i>Passer montanus</i>	SP	common	b, f
74.	House sparrow <i>Passer domesticus</i>	SP	common	b, f
75.	Common chaffinch <i>Fringilla coelebs</i>	SP	common	b, f
76.	Brambling <i>Fringilla montifringilla</i>	SP	0	a, f
77.	European serin <i>Serinus serinus</i>	SP	common	b, f
78.	European greenfinch <i>Carduelis chloris</i>	SP	common	b, f
79.	European goldfinch <i>Carduelis carduelis</i>	SP	common	b, f
80.	Common Linnet <i>Carduelis cannabina</i>	SP	common	b, f
81.	Hawfinch <i>Coccothraustes coccothraustes</i>	SP	common	b, f
82.	Yellowhammer <i>Emberiza citrinella</i>	SP	common	b, f
83.	Reed bunting <i>Emberiza schoeniclus</i>	SP	common	b, f
84.	Corn bunting <i>Emberiza calandra</i>	SP	common	b, f
<p><u>Protection status:</u>                      SP – strict protection, PP – partial protection, BDI – Annex I of the Bird Directive</p> <p><u>Status in the area:</u>                      b – breeding species, a – species rarely appearing in the area, f – species feeding in the area</p>				

Table 6. Specification of protected species of flightless mammals within the Task area

No.	Name	Protection status	Number	Occurrence
1.	Eurasian beaver <i>Castor fiber</i>	PP, HDII	no data	near the Czarna Struga estuary
2.	Red squirrel <i>Sciurus vulgaris</i>	PP	no data	in forests on the area of Task
3.	Eurasian otter <i>Lutra lutra</i>	PP, HDII	no data	near the Czarna Struga estuary
4.	Stoat <i>Mustela erminea</i>	PP	no data	near the Czarna Struga estuary
5.	Common shrew <i>Sorex araneus</i>	PP	no data	potentially within the whole area of Task
6.	Eurasian pygmy shrew <i>Sorex minutus</i>	PP	no data	potentially within the whole area of Task
7.	Eurasian water shrew <i>Neomys fodiens</i>	PP	no data	potentially within the whole area of Task
8.	Lesser white-toothed shrew <i>Crocidura suaveolens</i>	PP	no data	potentially within the whole area of Task
<p><u>Protection status:</u> PP – partial protection, HDII – Annex II of the Habitat Directive</p>				

Table 7. Specification of protected bat species within the Task area

No.	Name	Protection status	Occurrence
1.	Common noctule <i>Nyctalus noctula</i>	SP, HDIV	within the whole area of Task
2.	Daubenton's bat <i>Myotis daubentonii</i>	SP, HDIV	within the whole area of Task
3.	Brown long-eared bat <i>Plecotus auritus</i>	SP, HDIV	within the whole area of Task
4.	Grey long-eared bat <i>Plecotus austriacus</i>	SP, HDIV	within the whole area of Task
<p><u>Protection status:</u> SP – strict protection, HDIV – Annex IV of the Habitat Directive</p>			