

**Check list for implementation of the measures mentioned in Appendix No. 1  
and 2 to the Environmental Management Plan for**

**2A.1/2 Construction of Roztoki Bystrzyckie — a dry flood control reservoir on  
Goworówka stream**

Appendix No. 1 to the Final Report

The document constitutes Appendix No. 1 to the Final Report on implementation of the measures determined in the Environmental Management Plan for 2A.1/2 Contract (reporting period: 25.01.2018 - 21.09.2022 r.) and it is composed of the following parts:

- Part I. Check list on implementation of the mitigating activities listed in Appendix No. 1 of the Environmental Management Plan (EMP).
- Part II. Check list on implementation of the mitigating activities listed in Appendix No. 2 of the Environmental Management Plan (EMP).
- Part III. Quantitative list on implementation of the measures mentioned in Appendix 1 and 2 to the EMP

**Part I. Check list on implementation of the mitigating activities listed in Appendix No. 1 of the Environmental Management Plan (EMP).**

This part of Appendix No. 1 to the Final Report on implementing the measures listed in the Environmental Management Plan (EMP) for 2A.1/2 Contract presents the check list on implementing the mitigating activities listed in Appendix No. 1 EMP in the reporting period.

Explanation to the check list presented in Table 1

The conditions described in Appendix 1 to the EMP (table No. 1) are grouped in the following thematic categories:

*Check list for implementation of the measures mentioned in Appendix 1 and 2 to the EMP for 2A.1/2  
Construction of Róztoki Bystrzyckie - a dry flood control reservoir on Goworówka stream.*

Cat.	Category Name	Item in Table
A.	Requirements concerning the scheduling of works	1-3
B.	Requirements concerning communication service of the <i>Task implementation area</i>	4
C.	Requirements concerning the location of site facilities as well as technological roads and yards	5-7
D.	Requirements concerning quality and use of lands	8-10
E.	Requirements concerning handling of topsoil	11-12
F.	Requirements concerning trees and shrubs felling	13-17
G.	Requirements concerning protection of trees and shrubs not intended to be cleared	18-23
H.	Requirements concerning securing of the protected natural resources	24-34
I.	Specific requirements for works in riverbeds	35-53
J.	Specific requirements for carrying out works in riparian forest at the confluence of Goworówka, Cieszycza and Bielica streams	54
K.	Specific requirements for works on the reconstruction of the district road 3233D	55-59
L.	Specific requirements for the target lighting of the reservoir site	60
M.	Requirements concerning land reclamation after works	61-62
N.	Requirements concerning pollution prevention	63-81
O.	Requirements concerning waste management	82-86
P.	Requirements concerning protection of human life and health	87-92
R.	Requirements concerning extraordinary threats to the environment	93-95
S.	Requirements concerning protection of cultural monuments	96-98
T.	Measures concerning restoration of natural resources, set out in the environmental decision for the reservoir	99-102
U.	Measures concerning restoration of natural resources, set out in the RDOŚ decision for district road 3233D	103
V.	Implementation of measures specified in the RDOŚ decision permitting derogation from plant and animal species protection prohibitions	104
W.	Requirements concerning verification of geodetic division applied in the EMP	105
X.	Requirements concerning Contractor's staff involved in EMP implementation	106-111
Y.	Requirements concerning reporting of EMP implementation	112-115

- Columns No. 1 „Pos.”, numbers 1 to 115 – mean the numbers of particular mitigating activities, in accordance with the numbering in Appendix 1 EMP.
- Column No. 2 “Mitigating activities listed in App. 1 EMP” - a description of a measure, in the form of entries, along with the exact wording of the measure in the text of Appendix 1 to the EMP.
- Column No. 3 “Implementation situation in the period of reporting” - description of the implementation stage in the reporting period.

Table.1. Check list on implementation of mitigating activities mentioned in Appendix 1 EMP of the Contract 2A.1/2.

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
1.	<p><b><i>The EMP conditions on the deadlines of the works</i></b></p> <p>When determining the work schedules and at the stage of their implementation, it is necessary to take into account the conditions of the EMP regarding the deadlines and time for conducting various types of works, including:</p> <ul style="list-style-type: none"> <li>a) work commencement date (see item 24);</li> <li>b) periods of notice and the site inspection of the fishing user (see item 35);</li> <li>c) acceptable dates of works in the troughs of watercourses (see item 37 and 55);</li> <li>d) acceptable hours of the works performance (see item 75);</li> <li>e) acceptable dates for felling of trees and shrubs (see item 13);</li> <li>f) acceptable dates for trees and shrubs removal on the slopes of watercourses (see item 16);</li> <li>g) arrangement of dates for carrying out reinstating works (see item 61);</li> <li>h) dates for mowing the habitats of protected species of butterflies (see item 28);</li> <li>i) dates for planting the riparian and hornbeam trees (see item 99);</li> <li>j) dates for establishment and mowing of meadows in the reservoir area (see item 100);</li> <li>k) dates for the hanging of nesting boxes for white-throated dipper (see item 101);</li> <li>l) dates for the hanging boxes and construction of chambers for bats (see item 102);</li> <li>m) dates for planting trees and shrubs along the district road (see item 103);</li> <li>n) dates for the reporting of the EMP implementation (see item 112, 113, 114, 115).</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1st quarter 2018 and it was continued until the 3rd quarter 2022.</p> <p>In the reporting period a single negligence was observed for item 61, and the content is described in chapter 5.4 of this <i>Final Report</i>.</p>

<p><b>2.</b></p>	<p><b>THE EMP conditions on the actions to be executed before or at the initial stage of work</b></p> <p>When determining the work schedules and at the stage of their implementation, it is necessary to take into account the conditions of the EMP on the actions to be executed before or at the initial stage of work, including:</p> <ul style="list-style-type: none"> <li>a) conditions for the implementation and fitting out the site facilities as well as roads and technological yards (see item 5, and also item 7, 66, 67, 68, 69, 70, 71, 72, 83, 84, 85, 90, 91);</li> <li>b) conditions for communication service of the construction site (see item 4);</li> <li>c) conditions concerning the examination of quality (pollution) of land and river sediments (see item 8);</li> <li>d) condition concerning the removal and protection of topsoil layer (see item 11);</li> <li>e) condition for protection of trees and shrubs not planned for felling (see item 18);</li> <li>f) condition relating to the performance of nature inventory (see item 25);</li> <li>g) condition relating to the protection of the borders of habitats (see item 26);</li> <li>h) condition relating to the mowing of the habitats of protected species of butterflies (see item 28);</li> <li>i) condition of securing the construction site from entering by small animals (see item 30);</li> <li>j) condition for notification and site inspection of the fishing user (see item 35);</li> <li>k) condition for protection of vegetation in the riparian forest over the Nowinka (see item 58);</li> <li>l) conditions for the development of selected documents (see item 61, 82, 87, 93, 99, 100, 101,102, 103, 108, 112);</li> <li>m) conditions concerning the documentation of the technical state of buildings and infrastructure (see item 4, 89);</li> <li>n) condition concerning the military engineer recognition of the construction site (see item 88);</li> <li>o) condition relating to the obtainment of the opinion of the heritage conservator (see item 96);</li> <li>p) condition relating to the approval of the Engineer for the co-ordinator of EMP implementation and composition of the team of environmental experts,</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1st quarter 2018 and it was continued until the 3rd quarter 2021.</p> <p>In the reporting period single negligences were observed for item 4, 11, 26, 27, 66, 67, 70, 18, 61 and the irregularities are described in chapter 5.4 of this <i>Final Report</i>.</p>
------------------	--	---

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>team of archaeology experts and the team of military engineering supervision (see item 107, 108, 109, 110).</p> <p>r) condition relating to training on the principles of the EMP implementation (see item 106).</p>	
<p><b>3.</b></p>	<p><b><i>Preservation of the road connection between Roztoki Bystrzyckie and Gajnik towns</i></b></p> <p>Throughout the whole construction period it is necessary to provide a direct road connection between the Roztoki Bystrzyckie and Gajnik towns (along the lane of the district road 3233D, along the section subject to re-location in connection with the construction of the reservoir), available for cars, trucks and buses.</p> <p>The optimal solution would be to build a new section of the district road 3233D before starting the stage of works requiring the closure and liquidation of the existing section of that road.</p> <p><b>*Modification of item in the EMP Annexe of 12.02.2020</b></p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1st quarter 2018 and it was continued until the 3rd quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
<p><b>4.</b></p>	<p><b><i>Conditions for the use of access roads to the Task implementation area</i></b></p> <p>In the scope of the use of access roads to the <i>Task implementation area</i> the following conditions apply:</p> <p>a) Access to the <i>Task implementation area</i> should be determined on the basis of existing roads;</p> <p>b) The Contractor shall ensure proper markings of all access roads to the <i>Task implementation area</i> in accordance with applicable law and as agreed with the relevant Road Authorities. These markings will be monitored regularly, and in the case of damage or theft, the Contractor shall immediately restore or supplement these markings;</p> <p>c) The Contractor shall ensure the protection of people against increased vehicular traffic on roads used during the construction work. During the <i>Task implementation period</i>, the Contractor shall provide, install and maintain all temporary protection devices, thus ensuring the safety of vehicles and pedestrians;</p> <p>d) Hardened surfaces (e.g. access roads), over which the vehicular traffic transporting building materials and aggregates will take place, should be kept in due technical condition;</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1st quarter 2018 and it was continued until the 3rd quarter 2021.</p> <p>In the 1st quarter 2019 problems related to implementing the measure were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>

*Check list for implementation of the measures mentioned in Appendix 1 and 2 to the EMP for 2A.1/2  
Construction of Roztoki Bystrzyckie - a dry flood control reservoir on Goworówka stream.*

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>e) The Contractor shall apply to statutory restrictions for the axle load at the transport of materials to and from the <i>Task implementation area</i>. The Contractor shall obtain all necessary permits for the transport of atypical loads and continuously notify the Engineer of any such carriage;</p> <p>f) The Contractor shall be responsible for all damage to buildings and structures, roads, drainage ditches, culverts, water and gas pipes, poles and power lines, cables, points of geodetic control network and installation of any kind, and objects of another kind as horizontal and vertical marking, navigation marking, signage, cultural objects, etc., caused by him or his Subcontractors within the <i>Task implementation period</i>. The Contractor is also responsible for restoring the flow capacity of ditches and drainage systems in the area of works and used transport roads in the event of damage caused by construction works and transport connected with the works. The Contractor shall immediately repair any resulting damage at his own expense and, if necessary, carry out other work ordered by the Engineer;</p> <p>g) The Contractor is required to prepare the photographic documentation of the whole <i>Task implementation area</i> and access roads, with particular emphasis on the technical condition of the roads and buildings located near the road of transport of construction materials;</p> <p>h) Prior to the works, the Contractor shall carry out the site inspections in the presence of Road Authorities, which shall be followed by protocols on the condition of access roads to the <i>Task implementation area</i>. On this basis, the Contractor shall be obliged to restore the technical condition of the roads from before the <i>Task implementation period</i>;</p> <p>i) The Contractor is obliged to agree the traffic and work protection designs with the Road Authorities. The Contractor is obliged to carry out the traffic organization according to the agreed designs (marking and securing the <i>Task implementation area</i> and marking detours and recommended road marking connected with a change of traffic organization, etc.);</p> <p>j) Prior to the works, the Contractor shall submit the traffic organization and work protection designs agreed with the Road Authorities to the Engineer for approval. Depending on the needs and progress of works the designs of road traffic changes shall be updated by the Contractor on a regular basis.</p>	

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
5.	<p><b><i>Obligation to prepare site facilities as well as technological roads and yards</i></b></p> <p>Before starting the construction works, it is necessary to perform site facilities, technological roads and yards. Site facilities are to serve for storage of building materials, garage, refueling and current repairs of vehicles, machinery and devices, location of social facilities (changing rooms, office, workshop, portable sanitary cabins) and waste containers.</p> <p>Equipment of site facilities should meet, among others, conditions set out in item 7, 66, 67, 68, 69, 70, 71, 72, 83, 84, 85, 90, 91.</p> <p>When planning the above components of the construction site, it is necessary to ensure limitation of their area to a minimum.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1st quarter 2018 and it was continued until the 3rd quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
6.	<p><b><i>Conditions for location of site facilities as well as technological roads and yards</i></b></p> <p>Site facilities as well as technological roads and yards should be located:</p> <ul style="list-style-type: none"> <li>a) outside the areas covered with high greenery (trees, shrubs) intended to be preserved in the civil engineering design;</li> <li>b) outside the area of identified nature habitats and habitats and sites of protected species destined to be preserved in the civil engineering design (including outside the riparian forest at the confluence of the streams Goworówka, Cieszycza and Bielica, referred to in item 54);</li> <li>c) outside the protection zones of groundwater intakes;</li> <li>d) in sites ensuring the absence of noise impacts on acoustically protected areas;</li> <li>e) at a distance of not less than 100 m from existing reservoirs and wetland sites (for site facilities);</li> <li>f) at first, it is necessary to consider the location of site facilities in plots 208, 205/3 or 207 – the precinct of Roztoki (according to the documentation submitted to RDEP in Wrocław at the stage of obtaining the environmental decision).</li> </ul> <p>Designed locations of site facilities as well as roads and technological yards should be agreed with a team of environmental experts, referred to in item 108 (including <i>i.e.</i> a phytosociology expert) and submitted, together with the above arrangements, to the Engineer for approval.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1st quarter 2018 and it was continued until the 3rd quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>



Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>Note! Prior to the implementation of this condition it is necessary to determine the current position of the boundaries of the areas described by the numbers of plots (see point e), according to the conditions described in item 105.</p>	
7.	<p><b>Conditions for the location of the material storage places</b></p> <p>Building materials, particularly bulk materials, should be stored only on paved surfaces within the construction site facilities.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1st quarter 2018 and it was continued until the 3rd quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
8.	<p><b>Examination of quality (state of pollution) of land on the Task implementation area</b></p> <p>Prior to the commencement of earthworks, it is necessary to perform the quality examination (pollution status) of land on the <i>Task implementation area</i> (including earth mass outside the riverbeds of watercourses and sedimentation in riverbeds of watercourses), designed to:</p> <ol style="list-style-type: none"> <li>development within the boundaries of the construction site (including the use for construction purposes), or</li> <li>removal out of the boundaries of the construction site.</li> </ol> <p>The aim of the examination is to:</p> <ul style="list-style-type: none"> <li>determine the possibilities of these land use within the boundaries of the construction site, in accordance with applicable regulations, and</li> <li>establish an acceptable method of dealing with the land not usable within the construction site boundaries.</li> </ul> <p>The examination should be performed in accordance with current regulations, including the <i>Waste Act</i>, <i>Environmental Protection Law</i> and implementing acts to the above laws.</p> <p>The examination should be carried out by accredited laboratory, approved by the Engineer.</p> <p>Before starting the examination, the Contractor shall submit the methodology of planned examination to the Engineer for approval.</p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measure was implemented in the 1st quarter 2019.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
9.	<p><b>Use of lands coming from the construction site</b></p> <p>Lands located on the construction site (including the earth mass outside the watercourse riverbeds and the settlement of watercourse riverbeds) should be used at the construction site in the first place. The remaining excess land should be used in accordance with the applicable regulations and the design documentation. The procedure for the waste land should be presented in the <i>Plan of waste management</i>, developed by the Contractor and submitted to the Engineer for approval before the commencement of works (according to item 82).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1st quarter 2018 and it was continued until the 3rd quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
10.	<p><b>Requirements for land and aggregates coming from the outside of the construction site</b></p> <p>Land (including the earth mass) and aggregate used for construction works, and coming from outside the construction site, shall meet the requirements for soil quality standards and earth quality standards (in accordance with the <i>Environmental Protection Law</i> and its implementing acts), as well as in all other applicable regulations and standards (including the conditions of the item. 63 of Appendix 1 EMP).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1st quarter 2018 and it was continued until the 3rd quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
11.	<p><b>Removal, storage, and use of topsoil</b></p> <p>In order to protect topsoil in the <i>Task implementation area</i>:</p> <ul style="list-style-type: none"> <li>a) remove at least 0.2 m of topsoil prior to commencement of any construction works in individual parts of the <i>Task implementation area</i> (this condition applies to all locations in the <i>Task implementation area</i> where the existing topsoil layer could become degraded in relation to works, movement, and maintenance of machinery and devices, storage of materials etc.);</li> <li>b) the removed topsoil should be stored at construction site backyard in heaps not wider than 3 m and not higher than 1.5 m;</li> <li>c) topsoil removed from sites of protected plant species (referred to in item 104 clause I) should be separated and marked in a way facilitating conformity with conditions specified in item 61 clause b;</li> <li>d) topsoil removed from sites of protected butterfly species (referred to in item 104 clause II) should be separated and marked in a way facilitating conformity with conditions specified in item 61 clause c;</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 2<sup>nd</sup> quarter 2018, the 2<sup>nd</sup> and 3<sup>rd</sup> quarter 2019 and the 1<sup>st</sup> quarter 2020 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>e) detailed location of topsoil heaps should be agreed in advance with the environment expert board referred to in item 108 (including a phytosociology expert) so that storage of topsoil does not result in degradation of natural habitats and natural conservation sites for protected species and does not have a negative impact on health of trees and shrubs [see the condition in item 19]);</p> <p>f) Stored topsoil heaps should be protected from damage, running over, thickening, storage of construction materials, etc.;</p> <p>g) stored topsoil heaps should be regularly sprinkled with water depending on the weather (never allow the heaps to become dry for over 5 days);</p> <p>h) After completion of construction works, stored topsoil should be used to restore the layer of fertile soil as per the conditions specified in item 61 of the table below.</p> <p>[see also: item 104 clauses Ia, IIa and 115]</p>	
12.	<p><b>Trapping and transfer of common toad prior to removal of topsoil on plot No. 255</b></p> <p>No longer than 3 days prior to removal of topsoil layer in the area of plot No. 255, Róztoki precinct (the standard site of appearance of the protected amphibian, common toad <i>Bufo bufo</i>), inspect the area in order to trap individual amphibians and transfer them to a location with adequate habitat conditions out of the area affected by the works.</p> <p>The above-mentioned activities should be carried out under supervision of the herpetology expert referred to in item 108.</p> <p>[see also: item 104 clause IV and 115]</p> <p>Note! Prior to commencement of implementation of this condition, determine any boundaries of the above-mentioned areas specified using cadaster plot number as per conditions specified in item 105.</p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measures were implemented in the 4<sup>th</sup> quarter 2018.</p> <p>No problems were observed regarding the measure implementation.</p>
13.	<p><b>Permissible tree and shrub clearance period</b></p> <p>Trees and shrubs should be cleared between August 15<sup>th</sup> and March 15<sup>th</sup> only.</p> <p>[see also: item 104 clauses V, VI, VII and 115]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 3<sup>rd</sup> quarter 2018 and it was continued until the 4<sup>th</sup> quarter 2018.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
14.	<p><b><i>Environmental supervision prior to and during clearance of trees of circumference at breast height above 100 cm</i></b></p> <p>The following rules apply to removal of trees of circumference at breast height above 100 cm:</p> <p>a) clearance of trees of circumference at breast height above 100 cm should be preceded by an inspection of the trees for the presence of protected bats and invertebrates carried out by an expert entomologist and chiropterologist (referred to in item 108) not longer than 1 week prior to removal of a given tree;</p> <p>b) if presence of protected invertebrate and/or bat species is confirmed in trees to be felled, the above-mentioned experts shall indicate procedures for handling wood inhabited by protected animal species. Felling dates agreed with the above-mentioned experts should not violate the conditions specified in item. 13;</p> <p>c) trees of circumference at breast height above 100 cm will be felled under direct supervision of the expert entomologist and expert chiropterologist</p> <p>d) should any presence of protected invertebrate and/or bat species specimens be confirmed in trees to be felled, the above-mentioned experts shall specify procedures for handling wood inhabited by the protected animal species and procedures to limit mortality rate of any found protected animal specimen;</p> <p>e) should any presence of protected invertebrate and/or bat species be confirmed in trees to be felled and/or in trees being felled, obtain a legally required administrative decision for derogation from prohibitions regarding protected animal species (if required in each case).</p> <p>[see also: item 104 clause VIII, 113, and 115]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 3<sup>rd</sup> quarter 2018 and it was continued until the 4<sup>th</sup> quarter 2018.</p> <p>No problems were observed regarding the measure implementation.</p>
15.	<p><b><i>Preservation of wood with individuals of protected moss species</i></b></p> <p>In order to minimize destruction of specimens and habitats of protected moss species:</p> <ul style="list-style-type: none"> <li>● Bruch's pincushion <i>Ulota bruchii</i> – found in plots Nos 215 and 235, Roztoki precinct,</li> <li>● Crisped pincushion <i>Ulota crispa</i> – found in plot No. 331, Roztoki precinct,</li> </ul> <p>the following should be undertaken:</p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measures were implemented in the 2<sup>th</sup> quarter 2018.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>a) prior to commencement of tree clearing in the above-mentioned areas, arrange with the expert bryologist (referred to in item 108) the manner for conducting clearing works that facilitates preservation of wood with specimens of the above-mentioned species as per the condition in clause b (below). Information about results of the above-mentioned arrangements should be submitted for Engineer's acceptance in advance;</p> <p>b) preserve wood after clearance where specimens of the species were found by setting it aside in an appropriate location as arranged with the expert bryologist.</p> <p>Works in this regard should be performed under supervision and in line with guidelines of the expert bryologist.</p> <p>[see also: item 104 clause I and 115]</p> <p>Note! Prior to commencement of implementation of this condition, determine any boundaries of the above-mentioned areas specified using cadaster plot number as per conditions specified in item 105.</p>	
16.	<p><b><i>Permissible tree and shrub stump extraction period</i></b></p> <p>Stumps of felled trees and shrubs growing on slopes of stream riverbeds should be carried out solely from June 1<sup>st</sup> till the end of February (the optimum period for these works is June 1<sup>st</sup> to September 15<sup>st</sup>).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 3<sup>rd</sup> quarter 2018 and it was continued until the 2<sup>nd</sup> quarter 2019.</p> <p>No problems were observed regarding the measure implementation.</p>
17.	<p><b><i>Completion of works related to tree and shrub clearing</i></b></p> <p>All works related to clearing trees and shrubs in the <i>Task implementation area</i> (including extraction of stumps and removal of wood from the area) should be completed within the first 12 months following commencement of the Part of Contract involving implementation of the Task (within periods referred to in items 13, 16 and 24).</p> <p><b>*Item modification in the EMP Annexe of 12.02.2020.</b></p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 3<sup>rd</sup> quarter 2018 and it was continued until the 2<sup>nd</sup> quarter 201, as well as in the 1<sup>st</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
18.	<p><b>Protection of trees and shrubs not intended to be cleared</b></p> <p>Prior to commencement of any construction works, all trees and shrubs not intended to be cleared located within or in immediate vicinity of the <i>Task implementation area</i> should be protected from damage by covering their trunks with wooden boards at least to 1.5 m from the ground level (the boards should be fixed in a manner that does not damage the plants).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 1<sup>st</sup> and 2<sup>nd</sup> quarter 2018 and the 2<sup>nd</sup> and 4<sup>th</sup> quarter 2019 problems related to implementing the measure were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
19.	<p><b>Protection of areas below tree and shrub crowns</b></p> <p>Construction works should be carried out in a manner not damaging trees and shrubs not intended to be cleared.</p> <p>The following are forbidden within 1 meter from the projection of tree or shrub crown not intended to be cleared:</p> <ul style="list-style-type: none"> <li>a) establishing roads, processing areas, parking spots, and other elements that could affect soil compaction and change in aeration;</li> <li>b) vehicles, machinery and devices traffic, stopping, and parking;</li> <li>c) storage of topsoil and construction materials (in particular loose materials).</li> </ul> <p>a)</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
20.	<p><b>Maintenance of ground level in immediate vicinity of tree trunks</b></p> <p>Should earth works be carried out in immediate vicinity of trees, ground level at least 1.5–2.0 m from trunk should remain unchanged.</p> <p>Any ground level differences further from the trunk should be secured with a retaining wall or reinforced slope of increased angle.</p> <p><b>* Item modification in the EMP Annexe of 12.02.2020.</b></p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measures were implemented in the 1<sup>th</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
21.	<p><b>Works within tree and shrub root mass</b></p> <p>Any works within tree and shrub root mass should be carried out by hand.</p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measure was implemented in the 2<sup>st</sup> quarter 2020 and the 1<sup>st</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
22.	<p><b>Preservation of exposed tree and shrub roots</b></p> <p>Exposed roots of trees and shrubs should be covered, for example with straw or jute mats.</p> <p>At temperatures above 20°C, the mats should be watered (to prevent roots drying). At negative temperatures, the mats should be kept dry (to prevent root frost penetration).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure took place in the 2<sup>nd</sup> quarter 2020 and the 1<sup>st</sup> quarter 2021.</p> <p>In the 2<sup>nd</sup> quarter 2020 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
23.	<p><b>Preservation of damaged trees and shrubs</b></p> <p>Should any aerial parts of trees or shrubs become damaged, necessary maintenance works appropriate for the location and type of damage should be immediately implemented.</p> <p>In the case of damaged roots, cut away damaged tips and treat the root with an antifungal agent.</p> <p>The above-mentioned activities should be performed upon agreement with the environment expert board (referred to in item 108). Following the activities an opinion of the board as regards correctness of the actions should be presented to the Engineer for acceptance.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure took place in the 2<sup>nd</sup> quarter 2020 and the 1<sup>st</sup> quarter 2021.</p> <p>In the 2<sup>nd</sup> quarter 2020 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
24.	<p><b>Works commencement date and their continuity</b></p> <p>Earthworks and construction works should commence within the period from August 15<sup>th</sup> to March 15<sup>th</sup> (i.e. beyond the animal reproduction period lasting from half of March to half of August).</p> <p>If the works have begun, they have to be carried out in a continuous way (considering time limitations resulting from other items of this document – see item 1), in the manner preventing the protected animal species from settling in the <i>Task implementation area</i> within the <i>Task implementation period</i>.</p> <p>[see also: item 104 clause V, VI and VII]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
25.	<p><b>One-time environmental stock-taking within the works area before works commencement</b></p> <p>Before the works begin a one-time environmental stock-taking within the <i>Task implementation area</i> shall be carried out (at least within the areas scheduled for full or partial cut down of trees for the purpose of construction works, according to the design documentation), prepared by environmental experts team referred to in item 108.</p> <p>The purpose of the stock-taking is to determine the current distribution of the natural habitats and habitats and sites of protected flora and fauna species, including on-going verification of information regarding this subject and included in the <i>Environmental Impact Report</i> elaborated in 2014 (along with later amendments to this report).</p> <p>In the case of detecting natural habitats, habitats or sites of protected fauna and flora species within the <i>Task implementation area</i> the following actions should be executed:</p> <p>a) in case of natural habitats – discuss further actions with the relevant expert of the environmental team (referred to in item 108), and forward the results of the arrangements to the Engineer for approval;</p> <p>b) in case of habitats or sites of protected species – execute actions referred to in item 34.</p> <p>a)</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 2<sup>nd</sup> quarter 2018.</p> <p>No problems were observed regarding the measure implementation.</p>
26.	<p><b>Marking the boundaries of the patches containing natural habitats</b></p> <p>Before the works begin, boundaries of patches containing natural habitats to be left intact should be set down and marked with the participation of the expert phytosociologist, referred to in item 108 (according to the information contained in the <i>Environmental Impact Report</i> and results of the one-time environmental stock-taking referred to in item 25):</p> <p>a) 6430 – mountain tall herb fringe communities (<i>Adenostylion alliariae</i>) and riparian tall herb fringe communities (<i>Convolvuletalia sepium</i>),</p> <p>b) 9170 – <i>Galio-Carpinetum</i> oak-hornbeam forests, and</p> <p>c) *91E0 – Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> (<i>Alno-Padion</i>, <i>Alnion incanae</i>, <i>Salicion albae</i>).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 2<sup>nd</sup> and 4<sup>th</sup> quarter 2018, as well as the 1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarter 2019 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>



Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>Within the <i>Task implementation period</i> these patches must be secured against destruction, damage, contamination, traffic of vehicles, machinery and devices, and free access of persons in connection with the works (e.g. by establishing marked fences). Throughout the whole <i>Task implementation period</i> the condition of the protective measures of the patches containing the habitats should be inspected on a regular basis (at least once a month) and possible damages should be removed. These inspections should be carried out with the participation of the expert phytosociologist.</p> <p>[see also: item 113]</p>	
27.	<p><b><i>Setting down the boundaries of the areas on the Nowinka stream banks to be left intact (in connection with construction of new bridge)</i></b></p> <p>Before the construction works of new bridge on the Nowinka stream (located on the district road 3233D) begin (and prior to cutting down the trees and bushes) the boundaries of the areas to be left intact on the stream banks should be set down and marked under supervision of the expert phytosociologist (referred to in item 108).</p> <p>Within the <i>Task implementation period</i> these areas must be secured against destruction, damage, contamination, traffic of vehicles, machinery and devices, and free access of persons in connection with the works (e.g. by establishing appropriately marked fences); Throughout the whole <i>Task implementation period</i> the condition of the protective measures of these areas should be inspected on a regular basis (at least once a month) and possible damages should be removed. These inspections should be carried out by the expert phytosociologist.</p> <p>Works connected with the construction of new bridge on the Nowinka stream should be carried out according to the detailed terms specified in item 58.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 4<sup>th</sup> quarter 2019 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
28.	<p><b><i>Mowing of the area within the habitats of the protected butterfly species before commencement of works</i></b></p> <p>Within the areas occupied or possibly occupied by protected butterfly species (dusky large blue <i>Phengaris nausithous</i> and/or scarce large blue <i>Phengaris teleius</i> – according to the information included in the <i>Environmental Impact Report</i> and results of the one-time environmental stock-taking referred to in item 25) and covered by the area scheduled for full or partial cut down of trees and bushes (according to the design documentation), the following actions should be taken:</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began and was completed prior to starting the construction works in 2017.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>a) If the works are scheduled for the 1<sup>st</sup> half of the year [until March 15<sup>th</sup>, as specified in item 24]:</p> <ul style="list-style-type: none"> <li>➤ in the year preceding the year of works commencement and in subsequent years (if these habitats are still there), in the period from the beginning of June to the end of September these areas have to be mowed at least once a month (cutting height up to 10 cm) to prevent blossoming of great burnet which is a host plant to these butterfly species.</li> </ul> <p>b) if the works are scheduled for the 2<sup>nd</sup> half of the year [after August 15<sup>th</sup>, as specified in item 24]:</p> <ul style="list-style-type: none"> <li>➤ in the year of works commencement and in subsequent years (if these habitats are still there), in the period from the beginning of June to the end of September these areas have to be mowed at least once a month (cutting height up to 10 cm) to prevent blossoming of great burnet which is a host plant to these butterfly species.</li> </ul> <p>[see also: item 104 clause II and 115]</p>	
29.	<p><b>Limiting the Task implementation time</b></p> <p>The Contractor is obliged to organise the works in a way that would help reduce the <i>Task implementation period</i> to the minimum and limit the negative impact of works on the animals living within this area and in its surrounding.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
30.	<p><b><i>Protecting the Task implementation area against entering of small animals</i></b></p> <p>The works should be executed in a way allowing to avoid killing animals.</p> <p>The <i>Task implementation area</i>, particularly the sites of on-going works, backyards, storage yards, etc., should be secured against entering small animals (amphibians, reptiles, small mammals) with a net of mesh size not larger than 0.5 x 0.5 cm and of the height of at least 0.5 m. The net should be buried into the ground to the depth of at least 15 cm.</p> <p>Determining the detailed location of the fences protecting the <i>Task implementation area</i> against entering of small animals, and establishing these fences should be executed under supervision of expert herpetologist and teriologist (referred to in item 108).</p> <p>Within the whole <i>Task implementation period</i> the condition of these fences should be inspected on a regular basis and possible leaks should be removed, and it must be remembered that:</p> <p>a) In the period between March 1<sup>st</sup> and August 31<sup>st</sup> the inspections should be carried out at least once in 3 days;</p> <p>b) In the period between September 1<sup>st</sup> and last of February – at least once in 10 days.</p> <p>Inspection of the fences should be carried out with the participation of the experts.</p> <p>[see also: item 113]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 3<sup>rd</sup> and 4<sup>th</sup> quarter 2018 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
31.	<p><b><i>Catching and relocating small animals from the Task implementation area</i></b></p> <p>In the case of appearance of small animals (amphibians, reptiles, small mammals) within the <i>Task implementation area</i>, they should be caught and relocated from the <i>Task implementation area</i> to appropriate habitats outside the range of impact of the works. This should be executed under supervision of a relevant environmental expert (herpetologist and/or teriologist referred to in item 108).</p> <p>[see also: item 104 clause IV and IX, 113 and 115]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
32.	<p><b><i>Fighting invasive plant species</i></b></p> <p>During carrying out the works invasive plant species should be removed (at least twice a year, within the whole <i>Task implementation area</i>) until they disappear and are replaced with local vegetation.</p> <p>The invasive plant species should be pulled out together with root ball, transported away and disposed of.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>These actions should be performed according to the detailed guidelines specified by the expert botanist–phytosociologist (referred to in item 108).</p>	<p>2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 2<sup>nd</sup> quarter 2019 and the 1<sup>st</sup> quarter 2020 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
<p>33.</p>	<p><b><i>On-going inspections of the environmental experts team within the Task implementation period</i></b></p> <p>All works executed within the <i>Task implementation period</i> shall be carried out under the supervision of environmental experts team (referred to in item 108).</p> <p>These experts should carry out inspections of the whole <i>Task implementation area</i> on a regular basis (at least once a month) and communicate their findings and suggestions to the Contractor's staff responsible for implementation of works in conformity with the EMP conditions.</p> <p>The inspections should be followed by written notes attached to monthly reports on implementation of the EMP conditions (referred to in item 112).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
<p>34.</p>	<p><b><i>Obtaining a decision allowing for exceptions from the rules of species-specific protection of fauna, flora and fungi</i></b></p> <p>In the case when habitats or sites of protected species of flora and fauna (other than the sites referred to in item 104) are detected within the <i>Task implementation area</i> before works commencement or during carrying out of the works, the following actions should be taken:</p> <p>a) the Contractor shall acquire and hand over a written opinion of the environmental experts team (referred to in item 108) for the Engineer approval, including the following information:</p> <ul style="list-style-type: none"> <li>– scope of the possible impact of the works on the detected natural resources and</li> <li>– the necessity to obtain the decision referred to in item b,</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>and shall take the actions mentioned in items b–d below, if it is indispensable in the light of this opinion;</p> <p>b) before taking any actions that could endanger the habitats and sites, or scare an animal of protected species away (according to the opinion referred to in item a), the Contractor shall be obliged to obtain an administrative decision required by the governing law that would allow for exceptions from the bans regarding the protected species of flora, fungi and fauna;</p> <p>c) the decision has to be forwarded to the Engineer;</p> <p>d) the Contractor shall be obliged to a precise and timely implementation of the terms of the aforementioned decision.</p> <p>[see also: item 25]</p>	
35.	<p><b>Rules of cooperation with fishery user of the watercourses within the Task implementation area</b></p> <p>The Contractor is obliged to cooperate with the fishery user of the watercourses within the <i>Task implementation area</i> (The Polish Angling Association [PAA], Wałbrzych District) within the following scope:</p> <p>a) the Contractor will communicate to the fishery user (PAA, Wałbrzych District) the date of work commencement in the riverbeds (including the riverbeds of the Goworówka and Nowinka streams) 3 months in advance;</p> <p>b) within the date specified in item a. (above) the Contractor will execute an on-site verification within the <i>Task implementation area</i> with participation of the local representative of the PAA Wałbrzych District during which scheduled preparatory works and essential construction works regarding the Task implementation will be communicated;</p> <p>c) an expert ichthyologist supervising the works on behalf of the Contractor (see item 36 and 108) will cooperate with the ichthyologist employed by PAA Wałbrzych District, especially within the implementation of tasks specified in items 37–50 and item 104 clause III;</p> <p>d) when the <i>Task implementation period</i> is over the Contractor will hand over all documentation prepared by the expert ichthyologist supervising the works on behalf of the Contractor to the PAA Wałbrzych District (e.g. in the form of a report on ichthyologic supervision over the works which would cover actions taken to reduce the negative influence of the works on fish fauna).</p> <p>a)</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
36.	<p><b><i>Ichthyological supervision over the works in riverbeds</i></b></p> <p>All works in the riverbeds of watercourses shall be performed under the supervision of an expert ichthyologist (referred to in item 108).</p> <p>Their task will be to specify a proper method of work execution, check if the works are performed correctly, observe fish fauna and ensure implementation of relevant actions in case of risk to fish fauna.</p> <p>During the time execution of works in the riverbeds, the expert ichthyologist shall carry out regular inspections of the sites (at least once in three days) and forward their opinions and suggestions on regular basis to the Contractor's staff responsible for execution of works accordingly to the EMP conditions.</p> <p>[see also: item 104 clause IIIb, 113 and 115]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
37.	<p><b><i>Acceptable dates of works in the Goworówka and Nowinka riverbeds</i></b></p> <p>The following works in the riverbeds of Goworówka and Nowinka streams:</p> <ul style="list-style-type: none"> <li>a) regulation of the existing stream sections,</li> <li>b) liquidation of the existing stream sections,</li> <li>c) passing first waters through new (newly constructed) riverbeds of these streams,</li> <li>d) works regarding disassembly of the old bridge and construction of the new one located on the district road 3233D,</li> <li>e) works regarding disassembly and moving of the gas pipeline,</li> </ul> <p>can be carried out only within the period of June 1<sup>st</sup> to March 31<sup>st</sup> (these works must not be performed within April 1<sup>st</sup> to May 31<sup>st</sup>).</p> <p>The optimum period of carrying out these works is June 1<sup>st</sup> up to September 15<sup>th</sup>.</p> <p>Carrying out these works within the period of September 16<sup>th</sup> to March 31<sup>st</sup> shall be allowed only upon obtaining a positive opinion of the expert ichthyologist (referred to in item 108) granting the possibility of their execution at the specific site (in connection with spawning and brood of the river trout) and approved by the Engineer.</p> <p>[see also: item 104 clause IIIa and 115]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
38.	<p><b>Maintaining the water flow and conditions of migration of the aquatic organisms in the watercourses within the Task implementation area</b></p> <p>Throughout the entire <i>Task implementation period</i>, the possibility of migration of the aquatic organisms in the riverbeds of watercourses should be maintained (the condition of maintaining the water flow in the watercourses).</p> <p>In the case of the necessity of periodic limitation of the water flow in the riverbed in connection with the works, detailed terms and conditions of the scheduled works must be agreed upon with the environmental experts team referred to in item 108 (including the expert ichthyologist) so that the continuity of migration corridors of aquatic organisms was not disrupted.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 4<sup>th</sup> quarter 2018, the 4<sup>th</sup> quarter 2019 and the 1<sup>st</sup> quarter 2020 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
39.	<p><b>Sequence and direction of works execution at regulation of riverbeds of the Goworówka and Nowinka streams</b></p> <p>Regulation works scheduled for the riverbeds of watercourses shall be carried out in such a way that the scope of the works move along with the watercourse current (with works beginning at the upper post). The works within the area of Goworówka stream should be executed as first, and next in the area of Nowinka stream.</p> <p>[see also: item 104 clause IIIId and 115]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 1<sup>st</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
40.	<p><b>Handling the rip rap protection</b></p> <p>When reinforcing the riverbeds or banks of the existing watercourses with heavy rip rap protection, these rules should be followed:</p> <ol style="list-style-type: none"> <li>stones must not be thrown from lorries directly to the watercourse channel;</li> <li>the stones must be unloaded on the watercourse bank and then carefully moved in blocks with an excavator from the bank to the channel;</li> <li>the block of stones located on the slopes should be adjusted and profiled manually (blocks of stones must not be thrown from lorries directly to the water).</li> </ol>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 1<sup>st</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
41.	<p><b>Protecting the watercourses against vehicle traffic</b></p> <p>While carrying out works in the riverbeds and banks of watercourses these bans must be followed:</p> <ol style="list-style-type: none"> <li>ban on vehicle traffic within the riverbed along the watercourses;</li> <li>ban on moving earth masses, gravel and stones by pushing these materials in the in the riverbeds of watercourses.</li> </ol>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>c) ban on routing access roads within the riverbeds of watercourses (the equipment should be moved to the riverbed only from the bank side).</p>	<p>2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
<p>42.</p>	<p><b><i>Prohibition on interference in watercourses riverbeds and banks not covered by the works</i></b></p> <p>During the <i>Task implementation period</i> the riverbeds and banks of watercourses not covered by the works must not be interfered with (e.g. prohibition on traffic of vehicles, machinery and devices, prohibition on pollution, devastation and storage of materials, etc.).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
<p>43.</p>	<p><b><i>Construction of new riverbed sections of Goworówka and Nowinka streams and construction of new discharge structures using the "dry" technology</i></b></p> <p>The new riverbed sections of the Goworówka and Nowinka streams as well as discharge structure should be constructed in the "dry" technology (e.g. under the cover of earth-fill cofferdam, etc.).</p> <p>[see also: item 104 clause IIIc and 115]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>nd</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2020.</p> <p>No problems were observed regarding the measure implementation.</p>
<p>44.</p>	<p><b><i>Rules for liquidation of the old sections of the Goworówka and Nowinka streams channels</i></b></p> <p>When the new riverbed sections of the Goworówka and Nowinka streams are completed (in the "dry" technology), the following actions should be carried out:</p> <ol style="list-style-type: none"> <li>lead water flows to the new channels;</li> <li>make a cofferdam that would close the section of the old channel to be liquidated in the upstream area;</li> <li>wait until water from the channel to be liquidated flows to the new channel (this should be facilitated by e.g. digging extra ditches allowing downstream discharge along with the aquatic organisms);</li> <li>in the case when ponding occurs and traps aquatic animals, they should be replaced - under the supervision of the expert ichthyologist referred to in item 108 - to their proper habitats.</li> <li>before the actions specified in items b-d above are executed, the permits required by the provisions of the <i>Nature Conservation Act</i> and <i>Inland Fishing Act</i> must be obtained;</li> </ol>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 4<sup>th</sup> quarter 2019 and it was continued until the 3<sup>rd</sup> quarter 2020.</p> <p>No problems were observed regarding the measure implementation.</p>



Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>f) build a cofferdam in the downstream area of the channel to be liquidated;</p> <p>g) backfill the channel sections to be liquidated with soil.</p> <p>[see also: item 104 clause IIIc and 115]</p>	
45.	<p><b><i>Shaping the concrete tunnel riverbed under the reservoir dam</i></b></p> <p>To diversify the riverbed structure and micro habitats for aquatic organisms in the Goworówka stream channel, the concrete riverbed of the tunnel under the reservoir dam, 115 m long and 4 m wide, should be covered (on the whole surface) with a 10 cm thick layer of gravel (protected against leaching) and stones of the diameter of about 50 cm (they should be located randomly, alone and in groups of 3-5, within the mainstream and near the tunnel banks).</p> <p>The material (gravel and stones) should be taken from the section of the Goworówka stream to be liquidated.</p> <p>The stones embedded in the riverbed cannot be sharp-edged as this could cause injuries to animals in the case of swift current during high water.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>st</sup> quarter 2020 and it was continued until the 3<sup>rd</sup> quarter 2020.</p> <p>No problems were observed regarding the measure implementation.</p>
46.	<p><b><i>Shaping the riverbeds of new sections of the Goworówka and Nowinka streams</i></b></p> <p>The bottoms of the new riverbed sections of the Goworówka stream (total length of about 345 m) and Nowinka stream (226 m) should be covered with a 30 cm thick layer of gravel.</p> <p>Furthermore, big stones of a diameter of about 50 cm should be seated in the streams riverbeds.</p> <p>The stone arrangement should be the same as in the case of the concrete riverbed of the tunnel referred to in item 45.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2020.</p> <p>No problems were observed regarding the measure implementation.</p>
47.	<p><b><i>Shaping the riverbeds of the regulated sections of the Goworówka and Nowinka streams</i></b></p> <p>In the riverbed of the regulated sections of the Goworówka stream (65 m) and Nowinka stream (274 m), big rocks of a diameter of about 50 cm should be seated. This should be done exactly the same way as in the case of the concrete riverbed of the tunnel referred to in item 45.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 3<sup>st</sup> quarter 2019 and it was continued until the 3<sup>rd</sup> quarter 2020.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
48.	<p><b>Width of the "main tunnel"</b></p> <p>One of the "tunnel windows" (referred to as the "main tunnel") through which the Goworówka stream waters will flow during normal operation of the reservoir, should be adjusted to the natural width of the stream channel within the section under the reservoir dam construction, which is up to 4 m of width.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 3<sup>st</sup> quarter 2018 and it was continued until the 4<sup>rd</sup> quarter 2019.</p> <p>No problems were observed regarding the measure implementation.</p>
49.	<p><b>Width of the replaced section of the channel of the Goworówka stream</b></p> <p>Cross-section of the replaced section of the channel of the Goworówka stream should be adjusted to the dimensions of the natural cross-section of the channel in the area of the dam (i.e. to the bottom width of 6 m upstream the dam and 7 m downstream the dam).</p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measures were implemented in the 1<sup>th</sup> quarter 2020.</p> <p>No problems were observed regarding the measure implementation.</p>
50.	<p><b>Width of the new section of the Nowinka channel</b></p> <p>The riverbed of the new section of the Nowinka stream, which will be 226,0 m wide, should be 3,0 m wide.</p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measures were implemented in the 1<sup>th</sup> quarter 2020.</p> <p>No problems were observed regarding the measure implementation.</p>
51.	<p><b>Providing the main sluice of the gallery with a closure</b></p> <p>The main sluice in the gallery should be provided with a closure in the form of an electric drive gate and, in the event of emergency, a manual drive.</p>	<p><b>Implemented and completed activities</b></p> <p><b>The mitigating measures were implemented in the 2<sup>th</sup> quarter 2021.</b></p> <p>No problems were observed regarding the measure implementation.</p>
52.	<p><b>Material for reservoir dam construction</b></p> <p>The reservoir dam should be made as an earth dam.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
		2018 and it was continued until the 3 <sup>rd</sup> quarter 2021.  No problems were observed regarding the measure implementation.
53.	<p><b>Rules for supplying earth masses for the reservoir dam construction</b></p> <p>The earth masses for the reservoir dam construction should be transported directly to the target dam section and embedded in the dam body as soon as they are unloaded.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
54.	<p><b>Specific requirements for carrying out works in riparian forest at the confluence of Goworówka, Cieszycza and Bielica streams</b></p> <p>Works within the area of the best sustained patch of the riparian forest (natural habitat *91E0) and located at the confluence of the Goworówka, Cieszycza and Bielica streams should be carried out under the supervision of a phytosociologist (referred to in item 108).</p> <p>The phytosociologist should participate in selecting trees and shrubs to be removed to maximally limit their number.</p> <p>Roads, construction site backyard and material storage sites must not be located within the boundaries of the above mentioned patch of the habitat *91E0 [see also item 6.]</p> <p>[see also: item 113]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
55.	<p><b>Timeline of works in the Nowinka stream channel (concerning construction of the district road 3233D)</b></p> <p>The works regarding liquidation of the existing section of the district road 3233D requiring performing works in the riverbed or on the bank slopes of the Nowinka stream should be done according to the terms provided for in item 37.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
56.	<p><b><i>It is prohibited to interfere with the Nowinka stream channel during disassembly of the bridge located on the district road 3233D</i></b></p> <p>During disassembly of the bridge located on the district road 3233D, it is prohibited to interfere with the Nowinka stream channel.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>st</sup> quarter 2019 and it was continued until the 3<sup>rd</sup> quarter 2019.</p> <p>No problems were observed regarding the measure implementation.</p>
57.	<p><b><i>Terms for the works carried out in the Nowinka stream channel related to the construction of the new bridge on the district road 3233D</i></b></p> <p>The works in the Nowinka stream channel related to the construction of the new bridge should be carried out in two stages: first, on one bank of the riverbed and then on the other bank only.</p> <p>These works must be executed with a cofferdam protecting the riverbed against impurities and maintaining the normal water flow in the riverbed (see also item 38).</p> <p>A longitudinal cofferdam should run through the midst of the riverbed parallel to its banks, while the transverse one should run from one of the ends of the longitudinal cofferdam to one of the stream banks (as a result, half of the channel width will be separated, while the other one will be free for the water flow).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>st</sup> quarter 2018 and it was continued until the 1<sup>st</sup> quarter 2019.</p> <p>No problems were observed regarding the measure implementation.</p>
58.	<p><b><i>Terms for the works carried out on the Nowinka stream banks related to the construction of the new bridge on the district road 3233D</i></b></p> <p>Works on the banks of the Nowinka stream related to the construction of the new bridge should be performed in a way that would minimise damage in herbaceous and arboreal vegetation on the stream bank within the riparian forest (damage to vegetation is acceptable only on the bridge construction site and in sites of profiling the riverbed upstream and downstream the bridge; the total area of the damage including the cut down area cannot be larger than about 0.4 ha).</p> <p>To achieve this:</p> <p>a) prior to commencement of the above mentioned works (and before the removal trees and shrubs), the boundaries of areas on the stream banks to be left intact should be established and marked in the field (in a way that it is visible for persons carrying out the works) under the supervision of an expert phytosociologist (referred to in item 108).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>b) the removal of trees and shrubs within this area must be carried out under the supervision of the phytosociologist;</p> <p>c) within the <i>Task implementation period</i> the areas referred to in item a must be secured against destruction, damage, contamination, traffic of vehicles, machinery and devices, and free access of persons in connection with the works (e.g. by establishing fences designated appropriately on the side of the construction site);</p> <p>d) throughout the whole <i>Task implementation period</i>, the condition of the protective measures of these areas should be inspected regularly (at least once a month) and possible damages should be removed. These inspections should be carried out with the participation of the phytosociologist.</p>	
59.	<p><b><i>Ensuring flow capacity of the areas under the new bridge on the Nowinka stream (on the district road 3233D) for the migration of terrestrial animals</i></b></p> <p>The new bridge on the Nowinka stream (on the district road 3233D) shall be constructed to secure free migration of terrestrial animals along the stream banks under the bridge. To achieve this:</p> <p>a) earth shelves of the following parameters should be made on both stream banks under the bridge:</p> <ul style="list-style-type: none"> <li>➤ elevation of the upper surface of the shelves: above the average water level;</li> <li>➤ shelf width: 1.5 m each;</li> <li>➤ height of the space over the shelves under the bridge (vertical clearance): not less than 1.5 m.</li> </ul> <p>b) the shelves should combine smoothly with the stream banks upstream and downstream the bridge.</p> <p>Activities related to implementation of the above mentioned conditions shall be made under the supervision of an expert herpetologist and teriologist (referred to in item 108). Once the shelves are completed, the Contractor shall present the opinion of these experts on their proper implementation from the point of view of terrestrial animals migration opportunities along the stream under the bridge.</p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measures were implemented in the 3<sup>th</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
60.	<p><b>Conditions for target lighting of the reservoir area</b></p> <p>For the purpose of lighting the reservoir area during normal operation 6 lampposts should be installed (2 next to the utility building and 4 within the area of the discharge structures of the reservoir).</p> <p>Works over the lighting should be carried out under the supervision of an expert chiropterologist (referred to in item 108).</p> <p>Light sources directed to roads and parts of the structure should be provided with screens that would limit lighting of the high greenery and water surface areas (to reduce the negative impact of the lighting of these areas on bat feeding condition).</p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measures were implemented in the 3<sup>th</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
61.	<p><b>Reconstruction of the topsoil layer and green areas, and ordering the area after work completion</b></p> <p>When the works are completed, the following actions should be done:</p> <ol style="list-style-type: none"> <li>1) reconstruction of the crop soil within the <i>Task implementation area</i> (using the topsoil collected from the works area according to the conditions referred to in item 11);</li> <li>2) carrying out procedures enhancing reconstruction of green areas (including sowing and planting trees and bushes using domestic plants only according to the local habitat conditions);</li> <li>3) ensuring proper care of the reconstructed green areas (until the Defects Notification Period is over);</li> <li>4) ordering the <i>Task implementation area</i>.</li> </ol> <p>The actions specified in clause 1, 2 and 3 (above) should be performed under the supervision of an expert botanist-phytosociologist and dendrologist (referred to in item 108), which would cover the following items:</p> <ol style="list-style-type: none"> <li>a) agreeing upon precise timelines of works;</li> <li>b) agreeing upon precise location of the sites for relaying the topsoil sourced from the areas where protected plant species can be found (referred to in item 104 clause I) and stored in the manner specified in item 11 clause c;</li> <li>c) agreeing upon (after consultation with an expert entomologist referred to in item 108) precise location of sites for relaying the topsoil sourced from the areas where protected butterfly species can be found (referred to in item 104 clause II) and stored in the manner specified in item 11 clause d;</li> <li>d) agreeing upon species composition and quantity proportions of seed mix to be sown;</li> </ol>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measures were implemented in the 3<sup>th</sup> quarter 2022.</p> <p>In the 2<sup>th</sup> quarter 2019 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>e) agreeing upon species composition and quantity proportions of trees and bushes to be planted;</p> <p>f) agreeing upon conditions for preparing the soil and planting material;</p> <p>g) agreeing upon rules of care of the reconstructed green areas;</p> <p>h) communicating the arrangements to the Engineer for approval;</p> <p>i) supervision over carrying out the procedures enhancing reconstruction of the green areas and their care (until the Defect Notification Period is over).</p> <p>The actions regarding reconstruction of the topsoil layer and green areas referred to in this item of the EMP shall begin at the earliest possible date allowing its implementation.</p> <p>The implementation of the works specified in this item of the EMP can begin only upon approval of the detailed <i>Quality Assurance Plan</i> concerning these works by the Engineer.</p> <p>[see also: item 113]</p>	
62.	<p><b><i>Maintaining local depressions within the reservoir basin</i></b></p> <p>Local depressions in the reservoir basin that would fill with water during high water should be maintained.</p> <p>[see also: item 113]</p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measures were implemented in the 3<sup>th</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
63.	<p><b><i>Using construction materials meeting the requirements of the provisions and standards, and which are harmless for environment</i></b></p> <p>The construction materials used for the Task implementation should be harmless for environment (natural, environmentally friendly or neutral). Consumables, raw materials, fuels, fertilisers, and concrete mixtures used during the <i>Task implementation period</i> should have appropriate certificates and be approved for use. Earth structures should be made of natural materials. Materials that are hazardous or harmful for health must not be used.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
64.	<p><b>Prevention against water and soil pollution</b></p> <p>To prevent against water and soil pollution only vehicles, machinery and devices that are technically efficient can be used. The Contractor is obliged to carry out maintenance of the vehicles, machinery and devices and to prevent possible contamination of the water and soil with all available organisational measures, paying special attention to prevent from fuel, oil and oil derivatives spilling both during maintenance, filling the tanks, transport and operation of the vehicles, machinery and devices.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
65.	<p><b>Limiting the time and amount of drainage and ban on discharge of the water from excavation ditches directly to the watercourses</b></p> <p>The drainage time should be limited to maximum and methods reducing the amount of the pumped out water alongside with its protection against contamination should be applied.</p> <p>The water pumped out of the excavation ditches must not be discharged to the watercourses due to a high amount of the suspended matter.</p> <p>The water can be discharged to the watercourses only upon its treatment and removal of the suspended matter, e.g. in a settling tank.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
66.	<p><b>Conditions for traffic of vehicles, machinery and devices within the Task implementation area</b></p> <p>The traffic of vehicles, machinery and devices can be maintained only in the following areas:</p> <ol style="list-style-type: none"> <li>within the construction site backyard;</li> <li>on existing roads;</li> <li>on access roads and yards;</li> <li>on internal roads (after their completion).</li> </ol> <p>If these areas are not hardened, this should be done using concrete slabs embedded on subcrust.</p> <p>[see also: item 69]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 1<sup>st</sup> and 4<sup>th</sup> quarter 2019 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
67.	<p><b>Parking lot for the machines and vehicles after the completion of works</b></p> <p>At the end of the workday, and especially on holidays, the machines and vehicles must be parked in designated areas in the backyard.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 3<sup>th</sup> quarter 2019 problems related to the measure implementation were observed</p>



Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
		and they are described in chapter 5.4 of this <i>Final Report</i> .
68.	<p><b><i>Rules for filling the tanks of vehicles, machinery and devices</i></b></p> <p>Fuel tanks should be filled using mobile or fixed fuel distribution stations equipped with appropriate security systems like a post with sorbent used for removing spilling and leaks of oil derivatives to the ground.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
69.	<p><b><i>Covering the backyard and access roads with concrete slabs embedded on the subcrust</i></b></p> <p>The backyard area, all access roads, and other sites where the traffic of vehicles, machinery and devices will be conducted, shall be covered with concrete road slabs on the subcrust (in case of non-hardened areas). [see also: item 66]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
70.	<p><b><i>Indicating and sealing the sites of stationing and maintenance of vehicles, machinery and devices</i></b></p> <p>The sites to be used for maintenance of vehicles, machinery and devices (including stationing, filling with fuel, technical maintenance, etc.) should be appropriately indicated and designated within the backyard.</p> <p>Until completion of the works these sites should be spread with impermeable insulating materials that would prevent the ground against contamination with liquid or solid substances.</p> <p>While discussing the location of these sites it must be remembered to maintain a safe distance from still and flowing waters basins.</p> <p>The detailed location must be discussed with environmental experts team referred to in item 108 (including the expert phytosociologist).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 4<sup>th</sup> quarter 2018 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
71.	<p><b>Ensuring water drainage from parking sites and access roads into drainage systems</b></p> <p>Parking sites for equipment and access roads shall be made with a slope to ensure stormwater, meltwater, and waste-water drainage into drainage systems in a manner that prevents any contaminants from penetrating the soil or mixing with surface waters.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
72.	<p><b>A station with a sorbent near the service and parking sites for vehicles, machinery and devices.</b></p> <p>A station with a sorbent used to eliminate any leaks and spillages of petroleum derivatives should be located near service sites for vehicles, machinery and devices (including parking, filling and technical service sites, etc.).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
73.	<p><b>Prevention of leaks from vehicles, machinery and devices</b></p> <p>Throughout the construction period, the technical state of vehicles, machinery and devices in operation shall be checked regularly to eliminate leaks of carbohydrate petroleum derivatives into the soil and waters.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
74.	<p><b>How to proceed in the event of petroleum derivative emission</b></p> <p>In the event of any petroleum derivative emission into the environment (including into soil and water), one shall:</p> <ol style="list-style-type: none"> <li>immediately take actions to prevent pollution dissemination, using available means (e.g. sorbents);</li> <li>immediately remove the soil contaminated due to the breakdown as per applicable regulations.</li> <li>in the event of major breakdowns, apply procedures described in item 94.</li> </ol>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 1<sup>th</sup> quarter 2020 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
75.	<p><b>Restriction on works to daytime</b></p> <p>Works shall be carried out during the day (between 6 a.m. and 10 p.m.).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
76.	<p><b>Restriction on noise emitted by vehicles, machinery and devices</b></p> <p>Construction works and earthworks shall only be carried out using vehicles, machinery and devices in working order and with noise emission levels (acoustic power) consistent with applicable regulations.</p> <p>Defective vehicles, machinery and devices which might result in increased noise levels in the surroundings shall not be used for the works.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
77.	<p><b>Restriction on noise emitted by pump aggregates</b></p> <p>In the event that the works are carried out in the acoustically protected areas or in their proximity, in order to restrict noise nuisance for the residents, one shall only use pump aggregates equipped with effective sound dampening cases, ensuring reduction in noise emission to levels consistent with applicable regulations and standards.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
78.	<p><b>Restriction on power consumption of vehicles, machinery and devices</b></p> <p>Use low power consumption vehicles, machinery and devices; switch off the power supply when they are not in use.</p> <p>Engine running time of vehicles, machinery and devices shall be reduced to the necessary minimum.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
79.	<p><b>Restriction on air pollution with exhaust fumes</b></p> <p>In order to reduce negative impact on the condition of the air:</p> <ul style="list-style-type: none"> <li>a) only use vehicles, machinery and devices that are in working order and have valid certificates in order to reduce the emission of gaseous substances and dusts into the atmosphere;</li> <li>b) provide a place for safe manoeuvring of vehicles in the form of yards;</li> <li>c) one shall reduce the traffic of vehicles, machinery, and devices to the necessary minimum;</li> <li>d) turn off engines vehicles are stopped.</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
80.	<p><b>Limiting dust contamination from the construction site and roads</b></p> <p>During the course of the construction works, limit the consequences of secondary dust contamination by observing high standards of work and in particular by:</p> <ul style="list-style-type: none"> <li>a) systematic clearance of the construction site;</li> <li>b) sprinkling dusty road surfaces;</li> <li>c) using airtight tarpaulin on vehicles carrying materials that may cause dusting during transport;</li> <li>d) cleaning vehicle wheels before entering access roads to the <i>Task implementation area</i>;</li> <li>e) removal of contamination using machinery (special purpose vehicles).</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
81.	<p><b>Maintenance of cleanliness on roads</b></p> <p>The Contractor shall use all available technical means and work organization in order to maximally reduce contamination of access roads to the <i>Task implementation area</i>.</p> <p>The Contractor is obliged to immediately and regularly remove any contamination from roads which occurs as a result of movement of vehicles, machinery and devices associated with the implementation of the Task.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 1<sup>th</sup> quarter 2019 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
82.	<p><b>Preparing a Waste Management Plan (WMP)</b></p> <p>Prior to the commencement of the works, the Contractor shall prepare and submit to the Engineer for approval the <i>Waste Management Plan</i>, which specifies how to deal with waste expected to be generated during the works, and includes, inter alia, the waste management conditions contained in the EMP.</p> <p>[see also item 9]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>st</sup> quarter</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
		<p>2018 and it was continued until the 3<sup>rd</sup> quarter 2018.</p> <p>No problems were observed regarding the measure implementation.</p>
83.	<p><b>Principles of waste management</b></p> <p>Wastes generated during the implementation of the Task shall be:</p> <p>a) segregated and selectively stored in airtight containers or in designated and suitable locations in conditions that prevent dust emission and prevent the wind picking up light fractions resulting in a negative environmental impact;</p> <p>b) regular waste collection shall also be ensured by entities authorised to manage the waste further.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
84.	<p><b>Principles of hazardous waste management</b></p> <p>Hazardous waste shall be segregated and stored separately in designated airtight containers set on hardened ground, secured against unauthorised access until handed over to entities authorised to manage such waste further.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
85.	<p><b>Principles of domestic waste-water management</b></p> <p>Domestic waste-water at the construction site backyard shall be retained in airtight holding tanks, the content of which shall be handed over to entities with appropriate permits to remove it.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
86.	<p><b>Prevention of illegal dumping sites</b></p> <p>Prior to the commencement of the works, the Contractor shall carry out reconnaissance of the <i>Task implementation area</i> to identify illegal dumping sites. During the <i>Task implementation period</i>, the Contractor shall prevent the emergence of possible dumping sites in the <i>Task implementation area</i>.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
		<p>2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
<p><b>87.</b></p>	<p><b><i>Preparing documents related to safety in the Task implementation area</i></b></p> <p>In the <i>Task implementation area</i>, one shall maintain order and ensure proper work organization.</p> <p>Prior to the commencement of the works, the Contractor shall prepare and obtain approval from the Engineer of the following documents related to safety at the construction site:</p> <p>a) <i>Safety and health protection plan (the SHP plan);</i></p> <p>b) <i>Construction site organization design.</i></p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021</p> <p>In the 2<sup>nd</sup> and 3<sup>rd</sup> quarter 2019 and the 1<sup>st</sup> quarter 2021 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
<p><b>88.</b></p>	<p><b><i>Reconnaissance and supervision of explosive ordnance disposal unit in the Task implementation area</i></b></p> <p>In order to minimize the risk related to the possibility of presence of hazardous military objects in the <i>Task implementation area</i>, the Contractor shall provide:</p> <p>a) prior to the commencement of the works – reconnaissance of the <i>Task implementation area</i> to detect unexploded explosive ordnance (a report containing the results of the above-mentioned unexploded explosive ordnance reconnaissance shall be submitted to the Engineer for approval);</p> <p>b) during the performance of the works – supervision of explosive ordnance disposal unit over the works (carried out by the explosive ordnance disposal team referred to in item 110) involving examination and clearance in the <i>Task implementation area</i> of hazardous military objects followed by their disposal;</p> <p>c) in the event that hazardous military objects are found in the <i>Task implementation area</i> – implementation of the procedures described in item. 95.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 4<sup>th</sup> quarter 2020.</p> <p>No problems were observed regarding the measure implementation.</p>
<p><b>89.</b></p>	<p><b><i>Documentation and monitoring of the technical condition of the buildings exposed to the impact of vibrations</i></b></p> <p>Prior to the commencement of the works during which there may occur vibrations that are hazardous to the neighbouring residents as well as the neighbouring properties and infrastructural facilities, the Contractor shall take inventory of the existing buildings and facilities, having particular regard to cracks and damage.</p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measure was implemented in the 2<sup>nd</sup> quarter 2018.</p> <p>No problems were observed regarding the measure implementation.</p>

*Check list for implementation of the measures mentioned in Appendix 1 and 2 to the EMP for 2A.1/2  
Construction of Roztoki Bystrzyckie - a dry flood control reservoir on Goworówka stream.*

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	During the performance of the works listed above, the Contractor shall monitor the condition of the buildings and facilities on an ongoing basis.	
90.	<p><b>Implementation of guidelines on occupational health and safety requirements</b></p> <p>The Contractor shall ensure implementation of detailed guidelines on occupational health and safety requirements, inter alia, in terms of:</p> <ul style="list-style-type: none"> <li>a) construction site development, including danger zones;</li> <li>b) storage and transport;</li> <li>c) electric power devices and systems;</li> <li>d) technical machinery and devices;</li> <li>e) works at heights;</li> <li>f) earth works;</li> <li>g) selected renovation and demolition works,</li> </ul> <p>contained in applicable regulations and presented in the study by <i>Chief Labour Inspectorate</i> as appendix to contract <i>Bidding Documents</i> (Part 2, Section VII – <i>Requirements for Works</i>).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>In the 1<sup>th</sup> quarter 2019 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
91.	<p><b>Ensuring hygienic conditions</b></p> <p>In the <i>Task implementation area</i>, one shall ensure a necessary number of portable toilets and ensure that the staff are able to use them, as well as provide all the staff with training on maintaining proper hygienic conditions at the construction site and its immediate vicinity.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
92.	<p><b>Principles of prevention of such diseases as HIV-AIDS</b></p> <p>By the agency of an approved service supplier, the Contractor shall implement an awareness raising programme on spreading such diseases as HIV-AIDS (the Contractor shall also carry out appropriate trainings) and shall take all other measures to lower the risk of transmitting HIV among the Contractor's personnel and among the local community. Those activities shall be performed in accordance with the detailed conditions stipulated in the Contract <i>Bidding Documents</i> (Part 3, Section VIII – <i>General Terms, clause 6.7</i>).</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
93.	<p><b>Principles of flood risk management</b></p> <p>With regard to flood risk, the Contractor shall prepare and submit to the Engineer for approval the document entitled <i>Construction Site Flood Protection Plan</i> that incorporates local hydrological and meteorological conditions in the vicinity of the construction site.</p> <p>If flooding occurs, the Contractor shall proceed in accordance with the procedures described in the above-mentioned document.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
94.	<p><b>Principles of crisis notification</b></p> <p>In the event of a crisis (other than a flooding), an accident, a major breakdown, etc., the Contractor is obliged to take the following actions:</p> <ul style="list-style-type: none"> <li>a) immediately notify appropriate emergency services (fire brigade, ambulance, the police, etc.);</li> <li>b) by the time appropriate emergency services arrive, carry out necessary activities to lower the risk of loss to personnel, property, and the environment (agreed with appropriate services as far as possible);</li> <li>c) notify the Engineer and the Employer;</li> <li>d) after arrival of appropriate emergency services, strictly follow their recommendations and instructions.</li> </ul> <p>[see also the condition in item. 74]</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
95.	<p><b>Procedures for unexploded explosive ordnance management</b></p> <p>In the event that unexploded explosive ordnance is found, one shall:</p> <ul style="list-style-type: none"> <li>a) immediately stop the works;</li> <li>b) evacuate the area around the finds;</li> <li>c) immediately notify an explosive ordnance disposal unit [see items 88 and 110] and the police, and follow their recommendations;</li> <li>d) notify the Engineer and the Employer;</li> </ul> <p>It is strictly forbidden to lift, dig up, bury, transfer, or throw unexploded explosive ordnance into fire, water, etc.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
96.	<p><b>Obtaining an opinion from a heritage conservator</b></p> <p>Prior to the commencement of the works, the Contractor shall obtain a relevant heritage conservator's opinion on the terms and conditions of the planned works implementation with regard to the applicable principles of historic monuments and archaeological sites protection,</p>	<p><b>Implemented and completed activities</b></p> <p>In the Construction Site area there are no historical sites and no</p>



Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	The Contractor shall be obliged to observe the provisions deriving from the said opinion.	archaeological sites listed in the Register of Historic Monuments.
97.	<p><b>Provision of archaeological supervision</b></p> <p>Earthworks shall be performed under regular archaeological supervision.</p> <p>To this end, the Contractor shall:</p> <ul style="list-style-type: none"> <li>a) prepare an appropriate action plan in this regard as part of <i>Quality Assurance Programme</i>;</li> <li>b) ensure participation of expert archaeologists referred to in item 109) to carry out regular supervision over the earthworks;</li> <li>c) if necessary, obtain the legally required <i>Permit for Archaeological Examination from the Heritage Conservator of the Lower Silesian Province</i>.</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
98.	<p><b>How to proceed if movable monuments or archaeological sites are found</b></p> <p>If, during the works, an object is found for which it is reasonable to suppose or be certain that it may be a monument or have a historical value, the Contractor is obliged to:</p> <ul style="list-style-type: none"> <li>a) immediately stop all the works which may damage and destroy the find;</li> <li>b) secure (using available means) the find and the site where it was found against destruction, damage, or theft;</li> <li>c) immediately notify the expert archaeologists (referred to in items 97 and 109) and the Engineer;</li> <li>d) take further protective actions, agreed with the expert archaeologists and the Engineer;</li> <li>e) facilitate and ensure that documentation activities, archaeological research, and other necessary activities can be carried out by the expert archaeologists and/or administrative bodies in charge of securing historical items;</li> <li>f) once the activities and research listed in clauses d) and e) are completed, the discovered movable monuments shall be passed to appropriate institutions indicated by the expert archaeologists and/or administrative bodies in charge of securing historical items (in accordance with applicable regulations and the content of the Permit referred to in item 97 clause c);</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>g) in the case of immovable monuments, after the completion of the activities and research listed in clauses d) and e), one shall proceed in accordance with the guidelines set out for further management of the discovered historical items, agreed with the expert archaeologists and/or administrative bodies in charge of securing the historical items (in accordance with applicable regulations and the content of the Permit referred to in item 97 clause c).</p>	
99.	<p><b>Riparian and oak-hornbeam planting in the Rostoki precinct and Michałowice precinct</b></p> <p>For the felling of 5.77 ha of riparian and oak-hornbeam forest habitats within the area and in the vicinity of the <i>Task implementation area</i>, the following plantings are required on plots Nos 193, 211, 213, 217/1, 217/2 (Rostoki precinct) and plots Nos 136, 139 (Michałowice precinct):</p> <p>a) riparian stands (great maple, ash tree, crack willow, black alder, other native deciduous species)</p> <p>– on an area not smaller than 3.5 ha;</p> <p>b) oak-hornbeam stands (hornbeam, oak, other native deciduous species)</p> <p>– on an area not smaller than 12.5 ha.</p> <p>Only native plant species, representative of the given habitat type shall be planted.</p> <p>Maintenance works (e.g. annual mowing of crop grasses, fencing of cultivation areas, use of repellents, or making up any losses) shall be carried out on the cultivations for at least 10 years.</p> <p>During the <i>Task implementation period</i>, the actions listed above (planting and maintenance works) shall be carried out under supervision of experts: botanist-phytosociologist and dendrologist (referred to in item 108), covering, inter alia:</p> <p>a) setting a precise time frame of the works;</p> <p>b) agreeing on detailed location of the plantings;</p> <p>c) agreeing on species mix and proportions of tree and shrub species planned to be planted;</p> <p>d) setting conditions of soil and seedlings preparation;</p> <p>e) agreeing on principles for plantings maintenance works;</p> <p>f) referring the results of the agreements listed above to the Engineer for approval;</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 4<sup>st</sup> quarter 2020 and it was continued until the 3<sup>rd</sup> quarter 2022</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>g) supervision over the performance of plantings as well as supervision over the maintenance of the performed plantings (by the end of the Defects Notification Period).</p> <p>The agreements referred to in clauses a-e should include requirements set out in the project documentation in this regard.</p> <p>The activities related to the performance of the planting referred to in this EMP item shall commence as soon as possible.</p> <p>Prior to the commencement of the performance of the conditions set out in this EMP item, a detailed <i>Quality Assurance Plan</i> relating to the above-mentioned works shall be submitted to the Engineer for approval.</p> <p>Information on the performance of this activity shall be passed in accordance with the conditions set out in item 114.</p> <p>Attention! Prior to the commencement of the performance of this condition, one shall determine the current borders of the above-mentioned areas described using the numbers of cadastral plots, pursuant to the conditions set out in item 105.</p> <p><b>*Item modification in the EMP Annexe of 11.05.2020</b></p>	
100.	<p><b><i>Meadow reconstruction in the basin of the reservoir</i></b></p> <p>For the destruction of approximately 0.76 ha of Dusky large blue <i>Phengaris nausithous</i> and Scarce large blue <i>Phengaris teleius</i> habitat, one shall:</p> <p>a) the arable lands in the basin of the reservoir with an area of at least 3 ha shall be transformed into hay meadows by:</p> <ul style="list-style-type: none"> <li>– proper preparation of the soil;</li> <li>– sowing a blend of native grasses (the species mix shall be arranged with experts: a phytosociologist and an entomologist [referred to in item.108]; the mix should include, inter alia, the host plant for both large blues, namely the Great burnet <i>Sanguisorba officinalis</i>);</li> <li>– maintenance mowing of the sowed areas.</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>st</sup> quarter 2020 and it was continued until the 3<sup>rd</sup> quarter 2022.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>b) the meadows shall be mowed once a year after September 15<sup>th</sup> throughout the entire use period. In a given year do not mow more than 50% of the area, then in the subsequent year mow the area that was not mowed the year before. Remove the mowed biomass away from the meadow no later than 14 days after completion of the mowing. The use of the mowed biomass shall be agreed with RDOŚ in Wrocław.</p> <p>During the <i>Task implementation period</i>, the actions listed above (sowing and meadow maintenance) shall be carried out under supervision of expert botanist-phytosociologist (referred to in item 108), covering, inter alia:</p> <ul style="list-style-type: none"> <li>a) setting a precise time frame of the works;</li> <li>b) agreeing on detailed location of the activities;</li> <li>c) agreeing on species mix and proportions of the seed mix to be sowed;</li> <li>d) setting conditions of soil preparation;</li> <li>e) agreeing on principles for maintenance of the sowed meadows;</li> <li>f) referring the results of the agreements listed above to the Engineer for approval;</li> <li>g) supervision over the performance of the sowed meadows as well as supervision over their maintenance (by the end of the Defect Reporting Period).</li> </ul> <p>The agreements referred to in clauses a-e should include requirements set out in the project documentation in this regard.</p> <p>The activities related to sowing the meadows referred to in this EMP item shall commence as soon as possible, in good time for them to be implemented.</p> <p>Prior to the commencement of the performance of the conditions set out in this EMP item, a detailed <i>Quality Assurance Plan</i> relating to the above-mentioned works shall be submitted to the Engineer for approval.</p> <p>Information on the performance of this activity shall be passed in accordance with the conditions set out in item 114.</p> <p>[see also item 104 clause IIc]</p>	
101.	<p><b><i>Installation of nest boxes for the White-throated dipper</i></b></p> <p>For the destruction of the nesting site of the white-throated dipper <i>Cinclus cinclus</i>, one shall:</p> <ul style="list-style-type: none"> <li>a) make 3 nest boxes with parameters adjusted to the species' requirements;</li> <li>b) hang the nest boxes in the following sites:</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>1) under the bridge over the Nysa Kłodzka river in Rostoki;</p> <p>2) under the new bridge over Nowinka (approximately 1+170 km of the Rostoki – Gajnik road);</p> <p>3) under the bridge on the Nysa Kłodzka river along the Domaszków – Międzygórze road.</p> <p>The above-mentioned activities shall be performed in agreement and under supervision of an expert ornithologist (referred to in item 108).</p> <p>Activities related to hanging the nest boxes for the white-throated dipper referred to in this EMP item shall commence as soon as possible, in good time for them to be implemented.</p> <p>Prior to the commencement of the performance of the conditions set out in this EMP item, a detailed <i>Quality Assurance Plan</i> relating to the above-mentioned works shall be submitted to the Engineer for approval.</p> <p>The information referring to the implementation of this activity shall be passed in accordance with the conditions laid down in item 114.</p> <p>[see also item 104 clause VIIC]</p>	<p>2018 and it was continued until the 1<sup>st</sup> quarter 2020.</p> <p>No problems were observed regarding the measure implementation.</p>
102.	<p><b><i>Installation of bat boxes and construction of chambers for bats</i></b></p> <p>For the destruction of potential dwelling places (refuges) for bats, one shall:</p> <p>a) in early spring (March–April) hang 32 houses for bats (Issel or Stratman models); the bat boxes should be in groups of 6–8, at locations as close as possible to places where tree felling was performed;</p> <p>b) make 4 chambers (8 chambers in total) in 2 tunnels of the reservoir dam, which shall serve as refuges for bats. The chambers shall fulfil the following requirements:</p> <p>1) dimensions of each of the chambers: 1.3 m wide, 0.4 m deep and 1.1 m high;</p> <p>2) entry openings of 1m x 0.5m located at a distance of 2.2 m away from the tunnel ceiling shall lead to the chambers; they shall be connected with the chamber proper by a 0.5m x 0.5m entry channel of an overall length of approximately 1.7m;</p> <p>3) the chambers’ ceiling and walls should be rough.</p> <p>The above-mentioned activities shall be performed in agreement and under supervision of an expert chiropterologist (referred to in item 108).</p> <p>Activities related to hanging bat boxes and making chambers for bats referred to in this EMP item shall commence as soon as possible, in good time for them to be implemented.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>st</sup> quarter 2018 and it was continued until the 2<sup>nd</sup> quarter 2019.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>Prior to the commencement of the performance of the conditions set out in this EMP item, a detailed <i>Quality Assurance Plan</i> relating to the above-mentioned works shall be submitted to the Engineer for approval.</p> <p>The information concerning the implementation of this activity shall be passed in accordance with the conditions laid down in item 114.</p> <p>[see also: item 104 clause VIIIb]</p>	
103.	<p><b><i>Tree and shrub planting sites along the new section of district road 3233D</i></b></p> <p>Along the whole new approx. 1.8 km section of district road 3233D (except the bridge), trees and shrubs shall be planted.</p> <p>Two belts of trees and shrubs shall be planted at each side of the new section of the district road, in the area of approx. 1.0 ha.</p> <p>As part of this activity, along the new road section, sycamores and lime trees shall be planted with shrubs (dog rose, and/or alpine rose, black elder, and guilder rose) among them.</p> <p>While choosing planting material, the following principles shall apply:</p> <ol style="list-style-type: none"> <li>a) one shall comply with seeds regionalisation, namely the propagating material shall come from the region bearing the code 702 (the area of the Kłodzko District and the Ząbkowice District);</li> <li>b) the propagating material to be used shall have a form of a seedling fulfilling the requirements in the <i>Regulation</i> of the Minister of Environment of February 18th, 2004 on detailed requirements for forest propagating material, which shall ensure their good quality (the seedlings shall be of appropriate sizes, free from disease, free from mechanical and frost damage, with a correctly developed root system, undamaged axillary bud, and correct crown to root system size proportions) and shall contribute to an increased seedling survival rate.</li> </ol> <p>Maintenance work shall be carried out in relation to the performed tree and shrub plantings, consistent with project documentation.</p> <p>During <i>Task implementation period</i>, the activities listed above (that is, planting and maintenance) shall be carried out under supervision of experts: botanist-phytosociologist and dendrologist (referred to in item 108), encompassing, inter alia:</p> <ol style="list-style-type: none"> <li>a) setting a precise time frame of the works;</li> <li>b) agreeing on detailed location of the plantings;</li> <li>c) agreeing on species mix and proportions of tree and shrub species planned for planting;</li> </ol>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 4<sup>st</sup> quarter 2020 and it was continued until the 3<sup>rd</sup> quarter 2021</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>d) setting conditions of soil and seedling preparation;</p> <p>e) agreeing on principles for planting maintenance works;</p> <p>f) referring the results of the agreements listed above to the Engineer for approval;</p> <p>g) supervision over the performance of plantings as well as supervision over the maintenance of the performed plantings (by the end of the Defects Notification Period).</p> <p>The agreements referred to in clauses a-e should include requirements set out in the project documentation in this regard.</p> <p>The activities related to the performance of the tree and shrub plantings referred to in this EMP item shall commence as soon as possible, in good time for them to be implemented.</p> <p>Prior to the commencement of the performance of the conditions set out in this EMP item, a detailed <i>Quality Assurance Plan</i> relating to the above-mentioned works shall be submitted to the Engineer for approval.</p>	
104.	<p><b>Implementation of the RDOŚ decision permitting derogation from plant and animal species protection prohibitions</b></p> <p>Below is the summary of conditions applicable in the event of specimens and nesting sites destruction of as well as in the event of startling and disturbance of protected plant and animal species, listed in <i>the decision of RDOŚ in Wrocław of January 13<sup>th</sup>, 2016 for the dry anti-flood reservoir "Róztoki Bystrzyckie" over the Goworówka stream (reference: WPN.6401.271.2015.BP.2)</i>.</p> <p>The permissions set out in the above mentioned decision are valid until December 31, 2020.</p> <p>Attention!</p> <p>Prior to the commencement of implementation of this condition, one shall determine the current boundaries of the areas described using the numbers of registered plots (see clauses I-IV, VI and VIII below), pursuant to the conditions set out in item 105.</p> <p>l) it is permitted to destroy nesting sites and specimens of 8 protected plants listed in clause I of the above-mentioned decision (located on plots Nos: 193, 210, 211, 215, 226, 227, 233, 235, 236, 239, 240, 241, 250/1, 255 and 331, Róztoki precinct), on the following conditions:</p> <p>a) in the above-mentioned locations, perform activities related to the securing and using of a topsoil layer, as described in items 11 and 61b of this table;</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 4<sup>th</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>b) perform activities related to preserving wood with identified specimens of 2 moss species, as described in item 15 of this table.</p> <p>II) it is permitted to destroy nesting sites of 2 protected butterfly species listed in clause II of the above-mentioned decision (located on plots no.: 225, 236, 240, 241, 250/1, 255, 256 and 257–Rزتoki precinct), on the following conditions:</p> <p>a) in the above-mentioned locations, perform activities relating to the securing and using of a topsoil layer, as described in items 11 and 61c of this table;</p> <p>b) perform activities relating to anticipatory mowing of meadows being a nesting site of the species, as described in item 28 of this table;</p> <p>c) activities aiming at restoration of nesting sites for those species, as described in item 100 of this table.</p> <p>III) it is permitted to destroy nesting sites of 1 protected species of the lamprey, listed in clause III of the above-mentioned decision (located on plots Nos: 210 and 215, Rزتoki precinct), on the following conditions:</p> <p>a) observe works performance time frames in the riverbeds of the streams: Goworówka and Nowinka, described in item 37 of this table;</p> <p>b) perform works in the riverbeds of the streams: Goworówka and Nowinka, under supervision of an expert ichtiologist, in accordance with the requirements described in item 36 of this table;</p> <p>c) perform works related to the construction of new riverbeds of the streams: Goworówka and Nowinka as well as building reservoir relief devices, in accordance with the requirements described in items 43 and 44 of this table;</p> <p>d) perform regulating works on the Goworówka and Nowinka streams, in accordance with the requirements described in item 39 of this table.</p> <p>IV) it is permitted to destroy nesting sites and relocate specimens of 1 protected amphibian species listed in clause IV of the above-mentioned decision (located on plot No. 255, Rزتoki precinct), on the following condition:</p> <p>a) perform activities related to fishing and relocation of that species specimens from the construction site, as described in items 12 and 31 of this table.</p>	



Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>V) it is permitted to destroy nesting sites and feeding grounds of 4 protected bird species listed in clause V of the above-mentioned decision (located in the valleys of the streams: Goworówka and Nowinka, Rostoki precinct), on the following conditions:</p> <ul style="list-style-type: none"> <li>a) perform earthworks and construction works in the manner described in item 24 of this table;</li> <li>b) observe time frames of tree and shrub felling, as described in item 13 of this table.</li> </ul> <p>VI) it is permitted to startle and disturb 2 protected bird species listed in clause VI of the above-mentioned decision (located on plots Nos 218 and 250/1, Rostoki precinct), on the following conditions:</p> <ul style="list-style-type: none"> <li>a) perform earthworks and construction works in a manner described in item 24 of this table;</li> <li>b) observe time frames of trees and shrubs felling, as described in item 13 of this table.</li> </ul> <p>VII) it is permitted to destroy nesting sites as well as startle and disturb 51 protected bird species listed in clause VII of the above-mentioned decision (located in the <i>Task implementation area</i> ), on the following conditions:</p> <ul style="list-style-type: none"> <li>a) perform earthworks and construction works in a manner described in item 24 of this table;</li> <li>b) observe time frames of trees and shrubs felling, as described in item 13 of this table;</li> <li>c) perform activities aiming at restoration of nesting sites of the white-throated dipper, as described in item 101 of this table.</li> </ul> <p>VIII) it is permitted to destroy nesting sites as well as startle and disturb 6 protected bat species listed in clause VIII of the above-mentioned decision (located on plots Nos: 193, 208, 210, 211, 215, 227, 230, 231, 232, 233, 235, 239, 240, 241, 250/1, 255 and 331, Rostoki precinct), on the following terms:</p> <ul style="list-style-type: none"> <li>a) perform felling of trees with circumference at breast height exceeding 100 cm in a manner described in item 14 of this table;</li> <li>b) perform activities aiming at restoration of bat refuges, as described in item 102 of this table.</li> </ul> <p>IX) it is permitted to destroy nesting sites and relocate specimens of 6 protected mammal species listed in clause IX of the above-mentioned decision (located in the valleys of the streams: Goworówka and Nowinka, in the <i>Task implementation area</i>) on the following term:</p> <ul style="list-style-type: none"> <li>a) perform activities related to trapping and relocation of specimens of those species from the construction site, as described in item 31 of this table.</li> </ul>	

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>Information on the scope of fulfilment of the conditions provided in clauses I-IX (above) shall be submitted to the Engineer in accordance with the conditions set out in item 115.</p> <p><b>*Item modification in the EMP Annexe of 05.01.2021</b></p>	
<p><b>105.</b></p>	<p><b><i>Verification of the geodetic division applied in the EMP</i></b></p> <p>Any reference to cadastral plots numbering provided in this appendix to the EMP refers to the geodetic division as of 2014-2015.</p> <p>Prior to commencement of implementation of measures in areas described in the EMP using cadastral plots numbers (see items 6, 12, 15, 99 and 104), one shall:</p> <ol style="list-style-type: none"> <li>a) identify current location of boundaries of the above-mentioned areas in reference to current geodetic division (and current plot numbering) contained in the current decision on permit for the implementation of the investment project issued for the Task;</li> <li>b) submit information on the results of the above-mentioned agreements to the Engineer for approval.</li> </ol>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measure was implemented in the 1<sup>st</sup> quarter 2018.</p> <p>No problems were observed regarding the measure implementation.</p>
<p><b>106.</b></p>	<p><b><i>Training of Contractor's staff as regards of EMP implementation</i></b></p> <p>The Contractor is obliged to provide training to its management, engineers and technicians on the principles and manners of implementation of conditions of the EMP that – consistent with Appendix 1 and 2 to the EMP – are assigned to the Contractor. At the end of those trainings, tests should be carried out to check participants' knowledge.</p> <p>In monthly reports submitted to the Engineer, the Contractor shall provide information on its personnel's training level in the scope of EMP provisions in the current reporting period.</p>	<p><b>Implemented and completed activities</b></p> <p>The mitigating measures were implemented in the 2<sup>nd</sup> quarter 2018.</p> <p>In the 1<sup>st</sup> quarter 2018 problems related to the measure implementation were observed and they are described in chapter 5.4 of this <i>Final Report</i>.</p>
<p><b>107.</b></p>	<p><b><i>Appointment of EMP co-ordinator in the Contractor's staff</i></b></p> <p>A person in charge of co-ordination and supervision of activities related to EMP implementation shall be appointed in the Contractor's staff.</p> <p>This person shall be responsible, among others, for:</p> <ol style="list-style-type: none"> <li>a) supervision over implementation of individual EMP conditions during various stages of Task implementation;</li> <li>b) regular monitoring of the implementation of individual conditions contained in Appendix 1 and 2 to the EMP in the <i>Task implementation area</i>;</li> </ol>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>c) regular informing the Contractor's team management about duties stemming from the EMP at a given stage of works, as well as about any problems occurring in the scope of EMP implementation;</p> <p>d) collaboration with Contractor's remaining team members (including the team of environmental experts, team of archaeological experts and explosive ordnance disposal team, referred to in items 108, 109, and 110) in the scope of ensuring EMP implementation;</p> <p>e) reporting on EMP implementation (consistent with the principles given in items 112, 113, 114 and 115);</p> <p>f) collaboration with persons in charge of EMP implementation in the Engineer's team and the Contractor's team.</p> <p>The person appointed to perform the above-mentioned functions is subject to Engineer's approval.</p>	
108.	<p><b>Ensuring a team of environmental experts</b></p> <p>Throughout the <i>Task implementation period</i>, the Contractor shall ensure participation of a team of environmental experts, consisting of representatives of the following areas of specializations:</p> <p>a) botanist-phytosociologist (nesting sites and protected plant species);</p> <p>b) botanist-bryologist (mosses);</p> <p>c) dendrologist (principles of maintenance and protection of trees);</p> <p>d) zoologist – expert on invertebrates (protected invertebrate species [especially butterflies and beetles], macrozoobenthos);</p> <p>e) zoologist-ichthyologist (fishes);</p> <p>f) zoologist-herpetologist (amphibians and reptiles);</p> <p>g) zoologist-ornithologist (birds);</p> <p>h) zoologist-chiropterologist (bats);</p> <p>i) zoologist-teriologist (land mammals).</p> <p>Those experts shall be involved in performing chosen mitigation and monitoring measures specified in the EMP, in particular:</p> <p>a) mitigation measures listed in appendix 1 to EMP in items: 6, 11, 12, 14, 15, 23, 25, 26, 27, 28, 30, 31, 32, 33, 34, 36, 37, 38, 44, 54, 58, 59, 60, 61, 70, 97, 98, 99, 100, 101, 102, 103, 104, 107, 113, 114, 115;</p> <p>b) monitoring measures listed in appendix 2 to the EMP in items: 116, 117, 118, 119, 120 and 121.</p> <p>The composition of the environment expert board is subject to Engineer's approval.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>One member of the environment expert board is entitled to represent at most two natural science areas of specializations listed above in clauses a–i.</p> <p>Involvement of the above-mentioned experts in other undertakings of the OVFMP project or in any other undertakings shall not restrict their availability for the benefit of this Task.</p> <p>Prior to the commencement of the works, the contractor shall submit to the Engineer for approval of the <i>Quality Assurance Plan</i> in the scope of the environment expert board's activities.</p>	
109.	<p><b>Ensuring a team of archaeological experts</b></p> <p>Throughout the <i>Task implementation period</i>, the Contractor shall ensure participation of a team of archaeological experts.</p> <p>Those experts shall be involved in performing chosen mitigation measures specified in the EMP (in particular as regards the activities listed in items 96, 97, and 98 in Appendix 1 to the EMP).</p> <p>Dependent upon actual needs, the team of expert archaeologists may consist of one or more persons having appropriate industry qualifications. The composition of the team of expert archaeologists is subject to the Engineer's approval. Involvement of the above-mentioned experts in other undertakings of the OVFMP project or in any other undertakings shall not restrict their availability for the benefit of this Task.</p> <p>Prior to the commencement of the works, the contractor shall submit to the Engineer for approval of the <i>Quality Assurance Plan</i> in the scope of the team of expert archaeologists' activities.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
110.	<p><b>Ensuring an explosive ordnance disposal team</b></p> <p>Throughout the <i>Task implementation period</i>, the Contractor shall ensure participation of an explosive ordnance disposal team.</p> <p>Those experts shall be involved in performing chosen mitigation measures specified in the EMP (in particular as regards the activities listed in item 88 in Appendix 1 to the EMP).</p> <p>Dependent upon actual needs, the explosive ordnance disposal team may consist of one or more persons having appropriate industry qualifications. The composition of the explosive ordnance disposal team is subject to the Engineer's approval. Involvement of the above-mentioned experts in other undertakings of the OVFMP project or in any other undertakings shall not restrict their availability for the benefit of this task.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	Prior to the commencement of the works, the contractor shall submit to the Engineer for approval of the <i>Quality Assurance Plan</i> in the scope of the explosive ordnance disposal team's activities.	
111.	<p><b>EMP implementation discussion during working meetings and Site Meetings.</b></p> <p>During the <i>Task implementation period</i>, monthly meetings of PIU representatives, the Engineer and the Contractor shall take place, which will be dedicated to discussion and control of the implementation of the mitigation and monitoring measures specified in the EMP.</p> <p>Irrespective of the foregoing, current requirements and problems related to EMP implementation shall be discussed during all Site Meetings.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
112.	<p><b>Monthly reports on progress in EMP implementation</b></p> <p>During the <i>Task implementation period</i>, the Contractor shall submit to the Engineer monthly reports on the implementation of the conditions specified in the EMP (in a form of a checklist along with the necessary appendices, including the reports on the implementation of the environmental supervision).</p> <p>The template of the above-mentioned report (checklist) shall be prepared by the Contractor and submitted to the Engineer for approval.</p> <p>Depending on circumstances, the Engineer may demand from the Contractor additional reports on, inter alia, actual crisis situations, implementation of chosen EMP items, etc.</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 1<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>
113.	<p><b>Providing information on the implementation of the conditions contained in items 14, 26, 30, 31, 36, 54, 61, and 62 of the EMP</b></p> <p>Information on arrangements on the manner and scope of mitigation measures performance, referred to in items 14, 26, 30, 31, 36, 54, 61, and 62 (i.e. selected mitigation measures set out in the decision of the RDOŚ in Wrocław of December 18<sup>th</sup>, 2015) as well as documents confirming participation of an experts (e.g. memorandum of understanding and expert's statement confirming proper performance of activities) shall be submitted to RDOŚ in Wrocław according to the following principles:</p> <ul style="list-style-type: none"> <li>– The Contractor shall submit the above information to the Engineer within 15 days after the agreements and within 15 days after completion of the agreements implementation;</li> <li>– The Engineer shall submit the above information to the Employer within 7 days after receipt of the above information from the Contractor;</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<ul style="list-style-type: none"> <li>– The Employer shall submit the above information to RDOŚ in Wrocław within 7 days after receipt of the above information from the Engineer (e.g. keeping the 30-day’s deadline for the submission of the above information to RDOŚ after the above agreements or after the completion of the agreements implementation.</li> </ul>	
<p><b>114.</b></p>	<p><b><i>Providing information on the implementation of the conditions contained in items 99–102 of the EMP</i></b></p> <p>Information on arrangements on the manner and scope of mitigation measures performance, referred to in items 99–102 (i.e. selected mitigation measures set out in the environmental decision issued by RDOŚ in Wrocław of December 18<sup>th</sup>, 2015) as well as documents confirming participation of experts (e.g. memorandum of understanding and expert’s statement confirming proper performance of activities) shall be submitted to RDOŚ in Wrocław according to the following principles:</p> <p>a) during <i>Task implementation period</i>:</p> <ul style="list-style-type: none"> <li>– The Contractor shall submit the above information to the Engineer within 30 days after the agreements and within 30 days after completion of the agreements implementation;</li> <li>– The Engineer shall submit the above information to the Employer within 15 days after receipt of the above information from the Contractor;</li> <li>– The Employer shall submit the above information to RDOŚ in Wrocław within 15 days after receipt of the above information from the Engineer (e.g. keeping the 60-day’s deadline for the submission of the above information to RDOŚ after the above agreements or after the completion of the agreements implementation.</li> </ul> <p>b) after <i>Task implementation period</i>:</p> <ul style="list-style-type: none"> <li>– The Contractor shall submit the above-mentioned information to RDOŚ in Wrocław within 60 days after the arrangements have been made and within 60 days after completion of the agreements implementation.</li> </ul>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 2<sup>st</sup> quarter 2018 and it was continued until the 3<sup>rd</sup> quarter 2022.</p> <p>No problems were observed regarding the measure implementation.</p>
<p><b>115.</b></p>	<p><b><i>Providing information on the implementation of the conditions contained in item 104 of the EMP</i></b></p> <p>Information on the scope of execution of the conditions listed in item 104 (i.e. the conditions set out in the decision of RDOŚ in Wrocław of January 13<sup>th</sup>, 2015) in a given calendar year shall be submitted to RDOŚ Wrocław according to the following rules:</p>	<p><b>Implemented and completed activities</b></p> <p>Implementation of the mitigating measure began in the 4<sup>st</sup> quarter 2018 and it was continued until the 4<sup>rd</sup> quarter 2021.</p> <p>No problems were observed regarding the measure implementation.</p>

*Check list for implementation of the measures mentioned in Appendix 1 and 2 to the EMP for 2A.1/2  
Construction of Rostoki Bystrzyckie - a dry flood control reservoir on Goworówka stream.*

Item	Mitigating measures listed in App. 1 EMP	Implementation situation in the reporting period
(1)	(2)	(3)
	<ul style="list-style-type: none"> <li>– The Contractor shall submit the above information to the Engineer not later than on December 15<sup>th</sup> of the given year (the last time: in year 2020);</li> <li>– The Engineer shall submit the above information to the Employer not later than on December 31<sup>st</sup> of the given year (the last time: in year 2020);</li> <li>– The Employer shall submit the above information to RDOŚ in Wrocław not later than on January 15<sup>th</sup> of the next year (the last time: not later than on January 15<sup>th</sup>, 2021).</li> </ul> <p><b>*Item modification in the EMP Annexe of 05.01.2021</b></p>	

**Part II. Check list on implementation of monitoring activities mentioned in Appendix 2 EMP of the Contract 2A.1/2.**

Table.2. Check list on implementation of monitoring activities mentioned in Appendix 2 EMP of the Contract 2A.1/2.

Item	Monitoring measures listed in App. 2 PZŚ	Implementation situation in the reporting period
(1)	(2)	(3)
1-115	<p><b>Monitoring the implementation of the mitigating activities from Appendix EMP</b></p> <p>Pursuant to the descriptions mentioned in item 1 – 115 in the EMP Appendix</p> <p><b>Monitoring location</b> Pursuant to the descriptions mentioned in item 1 – 115 in the EMP Appendix</p> <p><b>Monitoring manner</b> Pursuant to the descriptions mentioned in item 1 – 115 in the EMP Appendix</p> <p><b>Monitoring time and frequency</b></p> <p>Pursuant to the descriptions mentioned in item 1 – 115 in the EMP Appendix</p> <p><b>Monitoring unit</b></p> <p>(pursuant to the descriptions mentioned in item 1 – 115 in the EMP Appendix)</p>	<p>Monitoring of the measures started on the instruction for Construction Works (i.e. 25.01.2018) and it was continued until the end of the reporting period (i.e. 21.09.2022).</p> <p>No problems were observed regarding implementation of the monitoring measures.</p>
<p><b>Requirements on implementing environmental monitoring determined in the environmental approval.</b></p>		
116.	<p><b>Monitoring the condition of preserving alluvial and oak-hornbeam habitats, as well as the state of preserving the alluvial forest and oak-hornbeam forest plantings</b></p> <p>In the periods indicated below, monitoring of the conservation status of riparian and oak-hornbeam habitats planned for felling in connection with the implementation of the Task and monitoring of the conservation status of riparian and oak-hornbeam forest plantings should be carried out in the following stages:</p> <ul style="list-style-type: none"> <li>– stage I: in the season preceding construction or in the construction start season, one should assess the conservation status of riparian and oak-hornbeam habitats planned for felling in connection with the Task implementation (see: item 99, App. 1 EMP).</li> <li>– stage II, III and IV: adequately 5, 10 and 15 years following the riparian and oak-hornbeam forest plantings (as referred to in item 99 of App. 1 EMP) the conservation status of the plantings should be assessed.</li> </ul>	<p>The activities, implemented and completed under stage I, in the year 2017, prior to commencing the construction works.</p> <p>Further stages: II, III and IV will be monitored by the Employer at the operation stage of the flood control reservoir.</p>



Item	Monitoring measures listed in App. 2 PZŚ	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>A report should be prepared on the monitoring outcome and this, among other, should include a comparison of the outcome from a given stage with the results of the previous stage, photo documentation and a text description.</p> <p>Information on the findings concerning the way and scope of implementing the aforelisted monitoring activities (defined in the environmental approval issued by the RDEP in Wrocław on 18.12.2015), the documents proving presence of an expert (e.g. a record of proceedings and a statement by the expert proving proper implementation of measures) and the RDEP in Wrocław should, within 60 days following such proceedings and within 60 days following completion of implementation of the proceedings.</p> <p>A report with the outcome of a given stage of the monitoring tests should be provided to the Regional Director for Environmental Protection in Wrocław within 60 days following completion of the monitoring tests for a given stage, yet no later than until the end of the calendar year when such monitoring took place.</p>	
117.	<p><b><i>Monitoring the meadows conservation in the reservoir basin (existing before the construction started and restored in relation to the Task implementation)</i></b></p> <p>In the periods listed below one should monitor the conservation stage of the meadows within the reservoir basin and the stages should be as follows:</p> <ul style="list-style-type: none"> <li>– stage I: in the season preceding construction or in the construction start season, one should assess the conservation status of meadow habitats to be destroyed in connection with the Task implementation (see: item 100, App. 1 EMP).</li> <li>– stage II, III and IV: adequately 5, 10 and 15 years after implementing the activities meant to restore the meadows within the reservoir basin, as referred to in item 100 of App. 1 EMP, the conservation status of the meadows being restored should be assessed.</li> </ul> <p>A report should be prepared on the monitoring outcome and this, among other, should include a comparison of the outcome from a given stage with the results of the previous stage, photo documentation and a text description.</p> <p>Information on the findings concerning the way and scope of implementing the aforelisted monitoring activities (defined in the environmental approval issued by the RDEP in Wrocław on 18.12.2015), the documents proving presence of an expert (e.g. a record of proceedings and a statement by the expert proving proper implementation of measures) and the RDEP in Wrocław should, within 60 days following such proceedings and within 60 days following completion of implementation of the proceedings.</p>	<p>The activities, implemented and completed under stage I, in the year 2017, prior to commencing the construction works.</p> <p>Further stages: II, III and IV will be monitored by the Employer at the operation stage of the flood control reservoir.</p>

Item	Monitoring measures listed in App. 2 PZŚ	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>A report with the outcome of a given stage of the monitoring tests should be provided to the Regional Director for Environmental Protection in Wrocław within 60 days following completion of the monitoring tests for a given stage, yet no later than until the end of the calendar year when such monitoring took place.</p>	
118.	<p><b>Monitoring population in the dipper nesting boxes</b></p> <p>For the period of no less than 3 years after hanging the nesting boxes for the dipper <i>Cinclus cinclus</i>, as mentioned in item 100 of appendix 1 to the EMP, one should inspect the boxes regarding their birds population in the nesting period, assess their technical condition and, if necessary, fix the boxes (2 inspections per year).</p> <p>The monitoring outcome carried out in a given calendar year one should prepare a report (photographic documentation and text description).</p> <p>Information on the findings concerning the way and scope of implementing the aforelisted monitoring activities (defined in the environmental approval issued by the RDEP in Wrocław on 18.12.2015), the documents proving presence of an expert (e.g. a record of proceedings and a statement by the expert proving proper implementation of measures) and the RDEP in Wrocław should, within 60 days following such proceedings and within 60 days following completion of implementation of the proceedings.</p> <p>A report with the monitoring outcome in a given year should be provided to the Regional Director for Environmental Protection in Wrocław within 60 days following completion of the monitoring works, yet no later than until the end of the calendar year when such monitoring took place.</p>	<p><b>Implemented and completed activities.</b></p> <p>Implementation of the monitoring measure began in the 2<sup>nd</sup> quarter 2020 and it was continued until the 2<sup>rd</sup> quarter 2022.</p>
119.	<p><b>Monitoring population in the bat boxes</b></p> <p>After 1 year since hanging the bat boxes (mentioned in item 102 of appendix 1 to the EMP) for the period of 5 years, one should inspect the boxes regarding bats population, assess their technical condition and, if necessary, fix the boxes (2 inspections per year).</p> <p>The monitoring outcome carried out in a given calendar year one should prepare a report (photographic documentation and text description).</p>	<p><b>Implemented measures</b></p> <p>Implementation of the monitoring measure began in the 3<sup>rd</sup> quarter 2019 and it was continued until the 2<sup>rd</sup> quarter 2022.</p> <p>The next inspections in 2023 and 2024 will be carried out by the Employer during the reservoir service life.</p>

Item	Monitoring measures listed in App. 2 PZŚ	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>Information on the findings concerning the way and scope of implementing the aforelisted monitoring activities (defined in the environmental approval issued by the RDEP in Wrocław on 18.12.2015), the documents proving presence of an expert (e.g. a record of proceedings and a statement by the expert proving proper implementation of measures) and the RDEP in Wrocław should, within 60 days following such proceedings and within 60 days following completion of implementation of the proceedings.</p> <p>A report with the monitoring outcome carried out in a given year should be provided to the Regional Director for Environmental Protection in Wrocław within 60 days following completion of the monitoring works, yet no later than until the end of the calendar year when such monitoring took place.</p>	
120.	<p><b><i>Monitoring of effectiveness of functioning of a tunnel under the body of reservoir dam as a corridor for fish migration</i></b></p> <p>Once completion of the reservoir construction is over, performance effectiveness of the gallery carrying waters of Goworówka Stream under the body of the dam, as a corridor through which the fish fauna moves (upstream and downstream) should be inspected, on annual bases.</p> <p>A report should be prepared on the monitoring outcome carried out in a given calendar year (photographic documentation and text description).</p> <p>Information on the findings concerning the way and scope of implementing the aforelisted monitoring activities (defined in the environmental approval issued by the RDEP in Wrocław on 18.12.2015), the documents proving presence of an expert (e.g. a record of proceedings and a statement by the expert proving proper implementation of measures) and the RDEP in Wrocław should, within 60 days following such proceedings and within 60 days following completion of implementation of the proceedings.</p> <p>A report with the monitoring outcome in a given year should be provided to the Regional Director for Environmental Protection in Wrocław within 60 days following completion of the monitoring works, yet no later than until the end of the calendar year when such monitoring took place.</p>	<p><b>Implemented measures</b></p> <p>Implementation of the monitoring measure began in the 4<sup>th</sup> quarter 2021 and it was continued until the 4<sup>th</sup> quarter 2022.</p> <p>The next inspections, once a year, will be carried out by the Employer during the reservoir service life.</p>
121.	<p><b><i>Monitoring presence of invasive plant species on the banks of watercourses in the Task implementation area</i></b></p>	<p><b>Implemented measures</b></p> <p>Implementation of the monitoring measure began in</p>

Item	Monitoring measures listed in App. 2 PZŚ	Implementation situation in the reporting period
(1)	(2)	(3)
	<p>After completing the works related to relocation of river beds and training the brook sections of Goworówka and Nowinka, along the sections covered by the aforelisted activities, the brooks banks should be monitored regarding presence of invasive plant species for 3 seasons (this, in particular, pertains to glanduliferas <i>Impatiens spp.</i> and Sosnowsky's hogweed <i>Heracleum sosnowskyi</i>).</p> <p>The monitoring outcome carried out in a given calendar year one should prepare a report (photographic documentation and text description).</p> <p>Information on the findings concerning the way and scope of implementing the aforelisted monitoring activities (defined in the environmental approval issued by the RDEP in Wrocław on 18.12.2015), the documents proving presence of an expert (e.g. a record of proceedings and a statement by the expert proving proper implementation of measures) and the RDEP in Wrocław should, within 60 days following such proceedings and within 60 days following completion of implementation of the proceedings.</p> <p>A report with the monitoring outcome in a given year should be provided to the Regional Director for Environmental Protection in Wrocław within 60 days following completion of the monitoring works, yet no later than until the end of the calendar year when such monitoring took place.</p>	<p>2021 and it was continued until 2022.</p> <p>The last monitoring will be carried out by the Employer in 2023 during the operation period of the flood control reservoir.</p>
122.	<p><b>Implementation of monitoring measures from the environmental approval</b></p> <p>Implementation of monitoring measures set up in the environmental conditions decision dated 18.12.2015, listed in items 116 - 121 in Appendix 2 of the EMP, during the term of the Contract.</p>	<p><b>Implemented measures</b></p> <p>The monitoring measures for which the Contractor and the Employer were in charge were implemented from 2017 to 2022.</p>

**Part III. Quantitative list on implementation of the measures mentioned in Appendix 1 and 2 of the EMP for 2A.1/2 Contract.**

Table.3. Quantitative list on implementation of the measures mentioned in Appendix 1 and 2 of the EMP for 2A.1/2 Contract.

Category	Mitigating activities (item 1 – 115 in Appendix 1 EMP)		Monitoring measures (item 1 – 122 in Appendix 2 EMP)	
	quantity	item no.	quantity	item no.
Implemented and completed activities in the reporting period:	115	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 111, 112, 113, 114, 115	117	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 111, 112, 113, 114, 115, 118, 122
Not implemented activities (they require continuation)	0	-	5	116, 117, 119, 120, 121