

Appendix 1

Checklist for implementation of the Contractor's and Engineer's measures listed under
Appendix 1 and Appendix 2 to the EMP for Contract 1B.7

Checklist for implementation of the measures listed under Appendix no. 1 and 2 to the Environmental Management Plan for Contract

1B.7 WFS Widawa – the rebuilding of the flood management system of the municipality of Czernica, Długoleka, Wisznia Mała and Wrocław

This document – forming Appendix no. 1 to the Final Report on the implementation of the measures specified in the Environmental Management Plan for Contract 1B.7, comprises the following parts:

- Part I. Checklist for implementation of mitigation measures listed under Appendix 1 to the Environmental Management Plan (EMP).
- Part II. Checklist for implementation of monitoring measures listed under Appendix 2 to the EMP.
- Part III. Quantitative list of implementation of the measures listed under Appendix 1 and 2 to the EMP.

The measures listed under Appendix 1 and in Appendix 2 to the EMP are grouped into the following thematic categories:

Cat.	Category Name	Item on the list
01	REQUIREMENTS RELATED TO LOCALISATION AND LIMITATION OF AREA OF TEMPORARY OCCUPATION	1-5
02	REQUIREMENTS CONCERNING THE COMMUNICATION SERVICE OF THE TASK IMPLEMENTATION AREA	6-7
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Table.1. Checklist for implementation of the mitigation measures listed under Appendix 1 to the EMP for Contract 1B.7

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
1.	<p><i>Restriction of land occupancy and land transformations</i></p> <p>In order to limit the occupation and transformation of the land surface during the Task implementation, the following Principles should be applied:</p> <ul style="list-style-type: none"> a) the occupation of the land and the transformation of the land surface during all types of work carried out in connection with the Task implementation should be limited to the necessary minimum, b) in areas adjacent to the Task implementation area (permanently and temporarily occupied areas), occupy land only in the area of the existing traffic systems. 	The measure has been implemented and completed
2.	<p><i>Obligation to prepare site back-up facilities</i></p> <p>Before starting the construction works, it is necessary to provide site back-up facilities, technological roads and yards. Site back-up facilities are to serve for storage of building materials, garaging, refuelling and current repairs of vehicles, machinery and devices, and as location of social facilities and waste containers.</p>	The measure has been implemented and completed
3.	<p><i>Preservation of natural assets beyond the places required to be occupied for the purpose of Task execution</i></p> <p>The following will be ensured when determining the location of technological routes and sites, site back-up facilities and other places of temporary occupation:</p> <ul style="list-style-type: none"> a) preservation of protected natural habitats, positions and habitats of protected species, b) preservation of all the tree- and shrub-based vegetation occurring beyond the areas required to be occupied in reference to the modernisation of the existing embankments and construction of new ones, c) a precise location of technological routes and sites, site back-up facilities and other places of temporary occupation shall be agreed in consultation with the Contractor's team of nature 	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	experts, so as not to worsen the ecological status of natural objects located within the Task implementation area.	
4.	<p><i>Reducing the area of damage within natural habitats and habitats of species</i></p> <p>Reduce as far as possible the area of damage as a result of building works conducted within valuable natural habitats and habitats of species. The results of one-time environmental stocktaking referred to in item 13 of Appendix no. 1 to EMP will be taken into account when fulfilling this condition</p>	The measure has been implemented and completed
5.	<p><i>Conditions for the location of roads, site back-up facilities, technological sites</i></p> <p>A precise location of site back-up facilities and technological routes and sites shall be agreed in consultation with the Contractor's team of nature experts, so as not to worsen the ecological status of natural objects located within the implementation area.</p>	The measure has been implemented and completed
6.	<p><i>General conditions connected with access to the work area</i></p> <p>Access to the construction site and speed limits near the construction site least disturbing for the people living nearby and safe shall be ensured in the phase of Task implementation (based on the existing system of roads).</p>	The measure has been implemented and completed
7.	<p><i>Conditions of using access roads to the area of task implementation with their surroundings</i></p> <p>The following conditions apply to the use of access roads to the Task implementation area:</p> <ul style="list-style-type: none"> a) the Contractor shall draw up traffic organisation plans for the duration of the works, in accordance with the provisions of the Technical Specifications and the requirements of the Road Administrators concerning transport routes and their conditions of use, b) the Contractor shall be obliged to agree with the Road Administrators on the planned roads to be used, traffic organisation and work security projects. The Contractor is obliged to carry out traffic organisation according to the agreed plans (marking and securing the work area and marking detours and recommended, related to the change of traffic organisation, road marking, etc.), c) prior to the works, the Contractor shall submit the traffic organisation and works protection designs as well as traffic organisation plan agreed with the road Authorities to the Engineer for approval. Depending on the needs and progress of the Works, the traffic organisation plans should be updated 	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<p>by the Contractor on an ongoing basis (the updates made require agreement with the Road Administrators and traffic management body),</p> <p>d) in accordance with the applicable law and agreements with the Road Administrators managing roads which will be used by the Contractor, routes will be marked. These markings shall be regularly inspected by the Contractor, and in case of destruction or theft, the Contractor shall immediately restore or supplement them,</p> <p>e) the hardened surfaces in the area of the site back-up facilities on which road traffic transporting construction materials will take place should be kept in a proper technical condition and clean,</p> <p>f) the Contractor shall be responsible for any damage to structures and buildings, roads, drainage ditches, culverts, water and gas pipelines, power poles and lines, cables, geodesic matrix points and installations of any kind, and other objects such as vertical and horizontal markings, navigational signs, information boards, cultural objects, etc., caused by them or their Subcontractors during the execution of the works. The Contractor is also responsible for restoring the flow capacity of ditches and drainage installations in the area of the works being conducted and the transport routes being used in the event of damages caused by the execution of works and transport related to the management of works,</p> <p>g) the Contractor is required to prepare the photographic documentation of the whole Task implementation area and access roads, with particular emphasis on the technical condition of the roads and buildings located near the roads for 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 Task implementation area. On this basis, the Contractor shall be obliged to reconstruct the technical condition of the roads prior to the Task implementation period,</p> <p>i) the Contractor shall immediately repair any damage caused at its own expense and, if necessary, carry out other works ordered by the Engineer,</p> <p>j) the Contractor shall comply with the statutory limits of load per axle when transporting materials and equipment to and from the Task area. They will obtain all necessary permits from the authorities to transport unusual cargo and will continuously notify the Engineer of any such transport.</p>	
8.	<p><i>Prevention of animal access to the work areas</i></p> <p>Site back-up facilities, technological roads, places of storage of construction materials, places of conducted works, etc., as well as areas located in the vicinity of places of occurrence and routes of seasonal migration</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<p>of amphibians should be protected against the entry of amphibians, reptiles, small mammals, by fencing them off with a tight fence not less than 0.5 m high.</p> <p>Determining the type, detailed location of the fences and their installation should be done in consultation with an expert herpetologist of the Contractor's team of nature experts.</p>	
9.	<p><i>Repair of possible damages to fencing of works areas</i></p> <p>Any damages existing in the area of the fencing described in item 8 of Appendix no. 1 to EMP shall be regularly removed.</p> <p>Such measures will be conducted with participation of an expert herpetologist of the Contractor's team of nature experts.</p>	The measure has been implemented and completed
10.	<p><i>Reduction of incidental animal mortality</i></p> <p>In order to reduce the incidental mortality of animals within the Task implementation area, the following principles should be implemented:</p> <ul style="list-style-type: none"> a) the application of methods securing water chambers, trenches, collectors etc. prior to the confinement of minor mammals, amphibians and reptiles within them. In the event of animals entering these facilities, they should be constructed in such a way as to allow the animals to get out by themselves, b) in cases where animals trapped in the above-mentioned facilities cannot get out by themselves, they must be safely pulled out and moved outside the work area, c) the transfer of animals should be carried out under the supervision of a herpetologist or theriologist expert, the Contractor's team of nature experts, experienced in dealing with such cases. 	The measure has been implemented and completed
11.	<p><i>Equipping the areas being potential places of pollution emission with sorbents</i></p> <p>Near places of temporary occupation such as:</p> <ul style="list-style-type: none"> • site back-up facilities (used as places of maintenance of vehicles, machinery and devices, where they are parked, fuelled, undergo technical maintenance, etc.), • service roads, 	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<ul style="list-style-type: none"> storage yards <p>a stand with sorbent will be provided, enabling fast elimination of potential results of leaks of fuel and oil derivatives. In particular, in the vicinity of machine garaging and filling there should be a stand with sorbent.</p>	
12.	<p><i>Site back-up facilities protection against the spreading of pollutants</i></p> <p>Site back-up facilities shall be located on hardened area, covered with a non-permeable insulation material, protecting against penetration of any solid or liquid pollutants.</p>	The measure has been implemented and completed
13.	<p><i>Execution of one-time environmental stocktaking</i></p> <p>Before starting the works, a one-time environmental stocktaking (made by the Contractor's team of nature experts, referred to in item 86 of Appendix 1 to the EMP) of the areas planned for temporary and permanent activities should be made:</p> <ul style="list-style-type: none"> a) establishing the current distribution of patches of natural habitats included in App. I of the Habitats Directive (Council Directive 92/43/EEC), sites of protected plant, fungi and animal species, b) determining the sites of potential occurrence of such species, <p>The Contractor shall deliver the results of one-time environmental stocktaking to the Engineer within 21 days from its completion.</p>	The measure has been implemented and completed
14.	<p><i>Marking the boundaries of natural habitats</i></p> <p>Prior to the commencement of works, identify and mark in field (in a manner visible for the employees performing and supervising the works) the boundaries of patches of the following natural habitats:</p> <ul style="list-style-type: none"> oak-elm-ash riparian forests <i>Ficario-Ulmetum</i> (code 91F0) - in vicinity of the sections of embankments: F1-G, G-G1, G1-H, D-D1, E2-E1; alluvial meadows of river valleys (<i>Cnidion dubii</i>) (code 6440) - in vicinity of the sections of embankments: K-K1, K1-L. <p>The sections of embankments shall be adopted according to the course of embankment sections presented in the Environmental impact report and in App. no. 6a of EMP.</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	Such measures will be conducted with participation of an expert phytosociologist of the Contractor's team of nature experts.	
15.	<p><i>Securing the patches of natural habitats</i></p> <p>The patches of natural habitats 91F0, 6440 situated in vicinity of the sections of embankments covered by the works shall be effectively secured (e.g. by fencing off with a fence built of wooden piles and forest net) against destruction, contamination, traffic of machines and vehicles and free access of persons associated with conducted works. The protection condition of patches shall be constantly supervised and any damages shall be removed.</p> <p>Such measures will be conducted with participation of an expert phytosociologist of the Contractor's team of nature experts.</p>	The measure has been implemented and completed
16.	<p><i>Protection of patches of natural habitats and habitats of species adjacent to work areas</i></p> <p>The Contractor shall be obliged to modify the technology applied for construction / modernisation of the embankments consisting in conducting works at the opposite side to natural objects (patches of natural habitats and habitats subject to species protection), or alternatively - conducting works at the front or crest of the embankment.</p>	The measure has been implemented and completed
17.	<p><i>Protection of bats within the bridge along Rieczna Street</i></p> <p>Directly prior to commencement of works relating to flow improvement under the bridge along Rieczna Street, inspect the bridge structure for presence of bats with participation of an expert chiropterologist of the Contractor's team of nature experts.</p> <p>Continue further works in consultation with an expert chiropterologist of the Contractor's team of nature experts, and if presence of bats is found, according to the chiropterologist's guidelines.</p>	The measure has been implemented and completed
18.	<p><i>Obtaining necessary derogations from prohibitions in relation to protected species</i></p> <p>The Contractor (if necessary - in proportion to the results of the conducted environmental stocktaking referred to in item 13 of App. 1 of EMP) shall obtain all necessary permits for derogations from prohibitions</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	in relation to the protected species of plants, fungi and animals, issued by in accordance with the Act on nature protection.	
19.	<p><i>Relocation of protected species outside work areas</i></p> <p>If it is necessary to destroy or relocate protected species outside work areas, the Contractor is obliged to:</p> <ul style="list-style-type: none"> a) plan such actions and obtain relevant permits (administrative decisions issued under the Act on nature protection) to conduct them, b) effectively conduct such actions, c) implement other activities required in the permit (e.g. drawing-up and submitting reports to the body issuing relevant permission (administrative decision)). 	The measure has been implemented and completed
20.	<p><i>Adopting the appropriate schedule for execution of works</i></p> <p>The Contractor should ensure such a schedule of works that the dates and location of individual stages of construction works are adjusted to the requirements of the environmental decision and the EMP and reduce the negative impact on the protected species occurring in the Task implementation area and its surroundings to the maximum possible extent.</p>	The measure has been implemented and completed
21.	<p><i>Dates of carrying out works within beds of watercourses</i></p> <p>All works within watercourses shall be undertaken beyond the period of 15 April to 30 June.</p>	The measure has been implemented and completed
22.	<p><i>Principles of carrying out works within beds of watercourses</i></p> <p>Works in the beds and on the banks of the watercourses are to be performed according to the principle of progress of works from the upstream to the downstream.</p>	The measure has been implemented and completed
23.	<p><i>Protection of habitats of amphibians adjacent to work areas</i></p> <p>In the inter-embankment area of the Widawa river, field hollows should not be backfilled with surplus soil generated during the works.</p>	The measure has been implemented and completed
24.	<i>Reduction of accidental death of amphibians</i>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<p>The water stagnation that occurs in the area of the Task implementation, which may be the places of amphibians' settlement, should be eliminated on an ongoing basis.</p> <p>The removal of water stagnation should be carried out in agreement with and under the supervision of the herpetologist expert of the Contractor's team of environmental experts.</p>	
25.	<p><i>Reduction of accidental death of animals</i></p> <p>Reduce (as far as possible) the minimum depth of excavations / trenches and shorten (as far as possible) the duration of works.</p>	The measure has been implemented and completed
26.	<p><i>Restoration of vegetation within the balance reservoir</i></p> <p>After finishing earthworks, within the area of the balance reservoir on the Mrówka stream, plant the littoral of the balance reservoir with water and above-water plants, in particular to create a band of rushes. Works should be carried out after consultation with the expert phytosociologist of the Contractor's team of nature experts.</p>	The measure has been implemented and completed
27.	<p><i>Guidelines for construction of embankments related to protection of valuable species of beetles in natural objects 7 and 20</i></p> <p>Within the area of natural objects - indicated in Appendix no. 6 of EMP - no. 7 "Riparian forest between Wilczyce and Kiełczów" and no. 20 - "Oak alley for extension of Wierzbowa Street in Kiełczówek", design and implement the course of the Task elements and works in such a way as to preserve all the trees being a habitat of Hermit Beetle <i>Osmoderma eremita</i> and Great Capricorn <i>Cerambyx cerdo</i>. If the species of above habitats cannot be preserved for technical reasons, cutting and principles of managing the cut trees shall be conducted according to an expert entomologist's guidelines of the Contractor's team of nature experts.</p>	The measure has been implemented and completed
28.	<p><i>Guidelines for construction of embankments related to protection of valuable species of beetles in the natural object 28</i></p> <p>Within the area of the natural object - indicated in Appendix no. 6 of EMP - no. 28 - "Oaks between Wilczyce and Kiełczów", design and implement the course of the Task elements and works in such a way as to preserve sessile oaks settled by Capricorn beetle, <i>Cerambyx cerdo</i>.</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
29.	<p><i>Ensuring the migration conditions of animals within bridge structures</i></p> <p>For the performance of works concerning the flow improvement of the bridges, apply solutions which ensure the ecological functionality for animals moving through the valley of the Widawa river, e.g. through:</p> <ul style="list-style-type: none"> a) dry land at river-bank areas above average water levels, b) natural character of river-bank areas under the bridges (e.g. by presence of herbaceous plants and bushes). 	The measure has been implemented and completed
30.	<p><i>Guidelines for protection of natural habitats and habitats of species within the “new” inter-embankment zone of the Widawa</i></p> <p>Do not design drainage systems and new melioration ditches in the area of the “new” inter-embankment zone of the Widawa within the limits and distance of less than 100 metres from wastelands, permanent grasslands, groups of rushes, water reservoirs, oxbow lakes, bushes, tree stands and forests.</p>	The measure has been implemented and completed
31.	<p><i>Execution principles of anti-filtering membrane</i></p> <p>In the places where an anti-filtering membrane and a sealing screen are used within the area of flood protection embankments, anchor the anti-filtering membrane and the sealing screen in the underground part in such a way that they do not reach the layers of non-permeable grounds.</p>	The measure has been implemented and completed
32.	<p><i>Maintaining the adequate damming level on the Kiełczówek weir</i></p> <p>Do not increase the agreed damming level under the rehabilitation works planned for the Kiełczówek weir. The maximum damming level shall not exceed the elevation of 119.40 m a.s.l.</p>	The measure has been implemented and completed
33.	<p><i>Taking into account the conditions resulting from the existence of protected areas</i></p> <p>During the construction works, the Contractor is obliged to observe the standards, prohibitions and indications and to respect the restrictions resulting from the existence of areas and objects created on the basis of the Act on nature protection.</p>	The measure has been implemented and completed
34.	<p><i>Removing and securing the topsoil prior to the commencement of works</i></p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<p>Prior to undertaking substantial levelling works and earthworks, the top humus soil layer shall be removed (to the depth of 30 cm on average) and stored in the vicinity of the work sites, in separate piles secured against drying and mixing with native rock.</p> <p>Location of topsoil heaps should be agreed with the Contractor's team of nature experts referred to in item 86 of Appendix no. 1 of EMP and presented for the Engineer's approval.</p>	
35.	<p><i>Principles of restoring the topsoil layer</i></p> <p>Upon completion of earthworks - use the taken-off humus for forming the slopes and crest of the embankments intended for turfing. At the width of 5-10 metres along the slopes and crest of the embankments, at one side or both sides of the embankment - spread and level the previously taken-off humus.</p> <p>Within the places of site back-up facilities, technological sites and roads - additionally execute all the tillage works: plating with discs, harrowing, fertilising and seeding grass mixtures in accordance with meadow habitats located closest to the site of re-cultivation.</p> <p>A composition of the grass mix will be agreed on with an expert phytosociologist of the Contractor's team of nature experts and the Engineer's approval will be obtained.</p>	The measure has been implemented and completed
36.	<p><i>Land reclamation after the completion of works</i></p> <p>After finishing works, the area shall be ordered and procedures supporting the restoration of green areas shall be performed in the places indicated by an expert phytosociologist of the Contractor's team of nature experts, including sowing and planting using native species in accordance with habitat conditions.</p> <p>In the places where plants were sown and planted, ensure proper maintenance (e.g. maintenance mowing) of the restored areas until the end of the Defects Notification Period.</p> <p>Before starting to perform the conditions defined in this item of EMP, a Quality Assurance Plan for the above-mentioned works will be presented for the Engineer's approval.</p>	The measure has been implemented and completed
37.	<p><i>Conditions and permitted dates for felling trees and shrubs</i></p>	The measure has been implemented and completed

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	Limit the felling of trees and shrubs to the ones colliding with Task implementation. Tree and shrubs felling in the period of 15 March to 15 August to be performed under the supervision of ornithologist expert of the Contractor's team of nature experts, who, directly before performing it, will inspect trees for presence of bird nests, and if such are found - will indicate the permitted felling performance time. The above-mentioned supervision in the remaining period (between 16 August and 14 March) will be carried out in the periods and locations proposed in advance by the Contractor's team of nature experts and accepted by the Engineer.	
38.	<p><i>Reducing tree clearance within the patches of breeding habitats</i></p> <p>When designating the trees planned for cutting, maintain the possibly largest area of the natural habitat of oak-elm-ash riparian forests <i>Ficario Ulmetum</i> (code 91F0).</p>	The measure has been implemented and completed
39.	<p><i>Inspection for presence of protected species of beetles and bats</i></p> <p>In case of felling of trees with their breast height over 50 cm, directly prior to the felling, the following should be performed with the participation of entomologist expert of the Contractor's team of nature experts - a control of the occupancy of these trees by protected species of beetles, such as: Great Capricorn Beetle <i>Cerambyx cerdo</i>, Hermit Beetle <i>Osmoderma eremita</i>, and inspect for presence of bats with participation of an expert chiropterologist of the Contractor's team of nature experts.</p>	The measure has been implemented and completed
40.	<p><i>Conditions justifying the felling of trees occupied by valuable species of beetles</i></p> <p>If the presence of beetles (larval or adult forms) is found, the permission for cutting the occupied tree can only be conditioned by technical or technological reasons.</p> <p>Before felling a tree inhabited by protected beetle species, the Contractor shall obtain the necessary administrative decision, issued on the basis of the Act on nature protection, allowing for exceptions from the prohibitions applicable to protected species.</p> <p>Then, the Contractor will perform cutting and any other activities imposed by the administrative decision issued under the Act on nature protection.</p>	The measure has been implemented and completed
41.	<p><i>Rules of procedure for felling the trees occupied by species of bats</i></p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	If bats are found in trees to be felled, the felling should be temporarily stopped and the recommendations of the chiropterologist expert of the Contractor's team of nature experts should be followed, appropriate to the current atmospheric situation and the bat species found.	
42.	<p><i>Protection of trees not intended for felling</i></p> <p>Within the whole area of Task implementation, secure all the trees and shrubs designated to be left, including the ones being habitats for Great Capricorn and Hermit Beetle, against accidental damage by using the following methods:</p> <ul style="list-style-type: none"> • make tree-trunk protection (e.g. made of planks) fully around tree trunks up to the level of 1.5 m at minimum, • make shields around shrubs (e.g. made of planks) up to the level of 1.0 m at minimum, • make dig-outs / trenches at a distance of not less than 2 m from tree trunks, • do not store construction materials or solid / liquid waste which can alter the chemical characteristics of soil (e.g. salts, oils, fuels), or soil masses within the projection of tree crests, • execute earth works manually around skeletal roots. It is unacceptable to undercut skeletal roots, • in the period of hot weather, maximally reduce the time of exposure of roots to desiccation, while in the period of cost weather (frost) - to freezing, • make dig-outs / trenches, conducted within the root systems of trees and shrubs, manually, if necessary, use drilling or jacking methods. 	The measure has been implemented and completed
43.	<p><i>Taking appropriate measures in case of damage to trees</i></p> <p>In the event of damage to trees, the necessary maintenance measures to be introduced immediately under the supervision of an expert phytosociologist from the Contractor's team of nature experts to limit effects of the damage.</p>	The measure has been implemented and completed
44.	<p><i>Development of a Waste Management Plan</i></p> <p>Within 42 days from the date of commencement of the works, the Contractor shall develop and submit to the Engineer for approval a Waste Management Plan related to the execution of the Contract, specifying the method of managing waste generated in the course of the works, taking into account, among others, the guidelines for handling waste, included in Appendix 1 to the EMP in items 45-49.</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
45.	<p><i>Storage of hazardous substances and materials</i></p> <p>Hazardous waste should be categorised and stored in designated containers placed at hardened and protected areas secured against access of third parties until their transfer to entities having the appropriate permission for their disposal. Ensure the regular collection of such type of wastes by operators with appropriate authorisation for their further management or neutralisation.</p>	The measure has been implemented and completed
46.	<p><i>Waste management principles</i></p> <p>Waste generated during the Task implementation shall be managed according to the following rules:</p> <ul style="list-style-type: none"> a) collect and store wastes only in dedicated places, the location of which is agreed in prior by the Contractor with the Engineer, b) categorise and store the wastes in leak-tight containers or at places being enclosed and adapted for this purpose, under conditions which prevent dusting and dispelling light fractions, and their negative effects on the environment, c) ensure successive collection by entities authorised to further develop or dispose of it, d) waste management shall be carried out in accordance with current waste management regulations and the Waste Management Plan referred to in item 44 of Appendix 1 to EMP. 	The measure has been implemented and completed
47.	<p><i>Determination of the quality of sediments in beds of watercourses</i></p> <p>Prior to the construction works in the places of the planned removal of sediments and works in the beds of watercourses, the Contractor shall carry out control tests and define the quality of sediments in accordance with applicable regulations (pursuant to the Act on waste and relevant executive acts).</p> <p>The aim of the tests is to:</p> <ul style="list-style-type: none"> • determine the possibilities of managing the acquired land and sediments within the boundaries of the construction site, in accordance with applicable regulations, and • establish an acceptable method of dealing with the land and sediments not usable within the construction site boundaries. <p>The tests should be performed in accordance with current regulations, including the Waste Act, Environmental Protection Law and implementing acts to the above laws.</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	The tests should be carried out by an accredited laboratory approved by the Engineer. Before starting the tests, the Contractor shall submit the methodology of planned examination to the Engineer for approval.	
48.	<p><i>Management of sediments coming from the construction site</i></p> <p>Sediments from 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 44 of Appendix no. 1 to EMP).</p>	The measure has been implemented and completed
49.	<p><i>Prevention of illegal landfill sites</i></p> <p>Before the commencement of the works, the Contractor shall make a reconnaissance of the area of the Task implementation, with respect to the presence of illegal waste dumps. During the implementation of the Task, the Contractor secures the area of the Task against the occurrence of such dumps.</p>	The measure has been implemented and completed
50.	<p><i>Handling of social and household sewage and stormwater</i></p> <p>If it is not possible to discharge social and household sewage into the existing sanitary sewage system, the sewage should be collected in tight, non-effluent tanks and ensure its regular collection by authorised entities.</p> <p>Stormwater drained from hardened yards, sealed and temporary objects of site back-up facilities (e.g. storage places of fuels and oils, car parks, barracks, etc.) cannot transfer contaminations from them to surface and ground waters.</p>	The measure has been implemented and completed
51.	<p><i>Ensuring adequate hygienic conditions within the work areas</i></p> <p>It is necessary to equip all construction sites with a required number of portable toilets and provide training to all the employees with regard to maintaining appropriate hygienic conditions within the area of the construction site and its direct surrounding. The Contractor's workers should meet their physiological needs in dedicated places.</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
52.	<p><i>Inspection of sections of embankments for presence of invasive species of plants</i></p> <p>Prior to the start of the growing season, the following sections of embankments shall be inspected: K-K1, K1-L, L-M (specified according to the <i>Environmental impact report</i> and presented in App. no. 6a of EMP), for presence of invasive positions of species of plants, with special consideration to Sosnowsky's hogweed <i>Heracleum sosnovskyi</i> and <i>Echinocystis lobata</i>.</p>	The measure has been implemented and completed
53.	<p><i>Necessary elimination of positions of invasive species of plants</i></p> <p>In the positions where invasive plants were found, mentioned in item 52 of Appendix no. 1 to EMP (within the limits of embankments: K-K1, K1-L, L-M indicated in Appendix no. 5a to EMP), and within the area of other positions possibly discovered in the Task implementation area, in the construction phase and over the next two growing seasons after their end, all discovered individuals of plants shall be removed belonging to external invasive species, especially Sosnowsky's hogweed <i>Heracleum sosnovskyi</i> and <i>Echinocystis lobata</i>, until they disappear and are replaced by local plants.</p>	The measure has been implemented and completed
54.	<p><i>Prevention of proliferation and elimination of positions of invasive species of plants</i></p> <p>Elimination of invasive sites of plant species referred to in item 53 of Appendix 1 to the EMP - depending on the species - should be carried out with the participation of and in accordance with detailed guidelines specified by the expert phytosociologist of the Contractor's team of nature experts, while observing the following guidelines:</p> <ul style="list-style-type: none"> a) the elimination of positions of invasive species of plants shall be made by digging them out or by extracting (together with the root mass) or/and chemical spraying, b) during removal of humus from places of temporary occupation, the humus taken-off with invasive plants - not connected with other earth masses - pass to entities having relevant waste management licences for transfer to a waste dump. 	The measure has been implemented and completed
55.	<p><i>Principles of carrying out works within the removed section of the bed of Młynówka Kielczowska (with a length of approx. 0.2 km)</i></p> <p>Perform works for relocation of the bed of Młynówka Kielczowska according to the following principles:</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<ul style="list-style-type: none"> a) prior to liquidation of the outlet section of Młynówka Kielczowska, its new section shall be constructed as "dry", entering directly the Mrówka watercourse, b) prior to liquidation of the outlet section, rubble shall be recovered from its bottom to be used for construction of the new section of the watercourse, c) upon completion of construction of the new section, the existing outlet section planned for liquidation shall be cut off from the headwater with a cofferdam, thus closing the supply of water, which will be directed to the new outlet section of the Młynówka, d) after closing the supply of water to the liquidated watercourse section by separating its channel with a cofferdam, wait until water flows down from it, undertaking at the same time works (excavations, trenches) facilitating its flow, enabling more aquatic organisms, especially fish, to escape together with water, e) when water flows down from this section, collect the fish left in the depressions with water and molluscs and other animals and release them to Młynówka Kielczowska several hundred metres above the conducted works, f) works shall be carried out with the participation of the ichthyologist expert and entomologist expert of the Contractor's team of nature experts, g) before releasing the collected organisms, their species should be identified, and after completion of works, information on the number and species of the collected organisms will be given in the Contractor's monthly report, h) before performance of activities encompassing catching and transfer of water organisms, necessary permission will be obtained resulting from provisions of the Act on nature protection and Inland fishing act. 	
56.	<p><i>Conditions concerning the construction method of a new bed of Młynówka Kielczowska (with length of approx. 0.2 km)</i></p> <p>The new bed of Młynówka Kielczowska should have its character similar to the liquidated bed of the watercourse (cross-section and longitudinal inclination of bottom), and, in addition, the following principles of its execution should be adopted:</p> <ul style="list-style-type: none"> a) use the rubble coming from the bottom of the eliminated section to construct the bottom of the new watercourse section, b) rubble is to be recovered from the bottom of the liquidated section before its backfilling, 	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<p>c) the banks shall be covered with turf and reinforced with fascine hurdles or planted with poplar cuttings,</p> <p>d) do not reinforce with rip-rap of broken stone, nor with stone cubes,</p> <p>e) do not use gabion mattresses or baskets to reinforce bank slopes,</p> <p>f) measures shall be planned in advance and then performed consisting of differentiation of the bottom structure (e.g. by creating hollows and shallow places, and also by laying boulders, branches).</p> <p>The scope and method of performing such measures should guarantee safe passage of flood water. Perform the measures with participation of an expert ichthyologist from the Contractor's team of nature experts.</p>	
57.	<p><i>Formation of places of stagnant water in the new bed of Młynówka Kielczowska</i></p> <p>In the new bed of Młynówka Kielczowska, execute not less than 2 places of stagnant water in the form of oval bays with the water surface area of not less than 1 m². Execute the places of stagnant water with participation of an expert ichthyologist from the Contractor's team of nature experts.</p>	The measure has been implemented and completed
58.	<p><i>Informing the fishing organisation of works in the bed of Młynówka Kielczowska</i></p> <p>Inform the fishing organisation (Polish Fishermen Association, Wrocław District) of the planned date of performing organisms catching in the bed of Młynówka Kielczowska at least two months in advance.</p> <p>Before starting to catch water organisms, agree upon with the fishing organisation the schedule and manner of performing fish catching and the places of transferring the fish.</p>	The measure has been implemented and completed
59.	<p><i>Control of sediments extracted from watercourses</i></p> <p>When performing works connected with desludging and removal of sediments and rubble from the watercourses, apply the following rules of conducting works:</p> <p>a) immediately after the bottom material has been removed from the channel of the watercourse, and again within one hour of the removal, the placement sites should be reviewed,</p> <p>b) storage places will be agreed with the Contractor's team of nature experts and transferred in advance for agreement to the Engineer,</p> <p>c) the review described in point a is performed by the expert ichthyologist of the Contractor's team of nature experts,</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<p>d) the frequency of inspections may be greater than specified above and should be adapted to the type and quantity of bed sediment extracted and the weather conditions prevailing during the work (e.g. high temperature),</p> <p>e) intervals between controls are possibly increased according to recommendations of an expert ichthyologist from the Contractor's team of nature experts,</p> <p>f) collect and release to water any discovered animals found in the collected bottom sediments (especially fish, molluscs), larval stages of invertebrates, (especially dragon flies),</p> <p>g) the collected individuals should be moved and released at places ensuring their safety (e.g. at sections of completed works in the bed or where desludging works were not carried out).</p>	
60.	<p><i>Conditions of desludging beds of melioration ditches</i></p> <p>Desludging during maintenance of the sections of the melioration ditches listed below shall be limited to the sections only where a layer of organic silts is limiting the correct flow of water.</p> <p>Remove the layer of silts with a thickness of not more than 30 cm. The performance of works should also ensure the maintenance of the existing bankline of ditches.</p> <p>The following sections of melioration ditches are covered by desludging works:</p> <ul style="list-style-type: none"> • R4 – maintenance of three sections of the ditch on plot no. 262/1 with the distance of 79.7 m, on plot no. 216 with the distance of 153.6 m, on plot no. 226/2 with the distance of 351.1 m, map sheet AM2, precinct of Śliwice; • R7 – maintenance of the section of the ditch with distance of 45.8 m, plot no. 326, map sheet AM2, precinct of Dobrzykowice; • R10 – maintenance of the section of the ditch with distance of 41 and 28.5 m, plot no. 498/4, map sheet AM2, precinct of Kiełczów; • R11 – maintenance of the section of the ditch with distance of 96.5 m, plot no. 499/1, map sheet AM2, precinct of Kiełczów; • R12 – maintenance of the section of the ditch with distance of 183 m, plot no. 524, map sheet AM2, precinct of Kiełczów; • R15 – maintenance of the section of the ditch with distance of 233.5 m, plot no. 212, map sheet AM2, precinct of Śliwice; • R16 – maintenance of the section of the ditch R-K9 with distance of 135.6 m, plot no. 200, map sheet AM2, precinct of Śliwice; 	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<ul style="list-style-type: none"> • R25 – maintenance of the section of the ditch R-G1 with distance of 70.6 m, plot no. 520, map sheet AM1, precinct of Wilczyce; • R29 – maintenance of the section of the existing ditch W-13 with the distance of 50.6 m from the planned embankment culvert PW7 to the Widawa riverbed, plot no. 3, map sheet AM6, the precinct of Swojczyce. 	
61.	<p><i>Limitation of dusting from means of transport</i></p> <p>Limit dust generation caused by the means of transport, in particular by applying the following steps adequately:</p> <ul style="list-style-type: none"> a) cleaning vehicle wheels before entering the public roads, b) cleaning surface of internal technological roads, c) using vehicles with tilts for transportation of dusty materials or transportation of powdery materials in packagings, d) other actions for prevention of contamination of roads with sand and mud, moved by vehicles, e) in dry periods, sprinkle surfaces of internal technological roads during conducted construction works. 	The measure has been implemented and completed
62.	<p><i>Limitation of dusting during the execution of works</i></p> <p>Loose materials and aggregate intended for being used at the construction stage must be protected against being blown away and against excessive dusting during storage, as well as during their incorporation.</p>	The measure has been implemented and completed
63.	<p><i>Limitation of flue gas emissions from machines and vehicles</i></p> <p>It is necessary to reduce the work time of motor machines and vehicles. Do not allow long-term operation of internal combustion engines of machinery and construction vehicles at a standstill (limit emissions at the so-called stage of idling speed).</p> <p>Equipment used at the stage of construction works must be in perfect technical order and satisfy all the legal requirements for the purpose of ensuring protection against dusts and gases being emitted to the air.</p>	The measure has been implemented and completed
64.	<p><i>Prevention and actions related to penetration of contaminants into soil and water environment</i></p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<p>Any works are to be implemented in such a way as to eliminate the risk of penetration of any contaminants, in particular oil derivatives, into the soil and water environment.</p> <p>In the event of possible spillage of oil derivatives, containment measures must be taken and removed immediately.</p> <p>In the event of any spillage of oil derivatives, contaminated soil layers are to be immediately removed (with help of specialised contractor) and managed in compliance with the applicable legal regulations. Places of such kind are to be restored to the original condition.</p>	
65.	<p><i>Providing site back-up facilities with devices for pre-treatment of rain water</i></p> <p>Site back-up facilities (used as places of maintenance of vehicles, machinery and devices, where they are parked, fuelled, undergo technical maintenance, etc.) shall be provided with devices for pre-treatment of rain water (to protect surface water and soils against oil derivatives).</p>	The measure has been implemented and completed
66.	<p><i>Requirements for equipment used during works</i></p> <p>Equipment and machines used for works must meet the appropriate quality and technical standards, excluding the emission of hazardous contaminants to water and earth, mainly from the oil-derivative group (oils, greases, fuels).</p>	The measure has been implemented and completed
67.	<p><i>Using fully operational equipment during the performance of works</i></p> <p>Do not use machines and equipment having technical defects or damages likely to have adverse impact on the environment and safety of people and property.</p>	The measure has been implemented and completed
68.	<p><i>Limitation of performance period of works to daytime</i></p> <p>Works shall be performed at daytime, i.e. between 6.00 a.m. and 10.00 p.m.</p>	The measure has been implemented and completed
69.	<p><i>Limitation of potential sources of contamination by oil derivatives</i></p> <p>The construction works should be organised in such a way as to limit the re-pouring of fuels and other chemicals within the Task area. Such measures can only be conducted within the hardened surfaces of site</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	back-up facilities provided with a non-permeable layer preventing the penetration of pollutants to water and soils.	
70.	<p><i>Ensuring archaeological supervision</i></p> <p>For the whole period of earthworks performance, the Contractor shall ensure the participation of a team of expert archaeologists (the Contractor's archaeological supervision). The team is responsible for implementation and/or coordination of the following actions:</p> <ul style="list-style-type: none"> a) advance archaeological works will be conducted within discovered archaeological sites, b) works within the limits of the discovered archaeological sites to be performed in line with the conditions specified in the works permit issued by the Provincial Monument Conservator, c) appropriate protection of valuable objects and other elements of historical value and transporting them from the working site to the designated institution place or institution, d) prepare an appropriate action plan for archaeological supervision in form of a Quality Assurance Plan. 	The measure has been implemented and completed
71.	<p><i>Rules of conduct in case of discovery of movable monuments or archaeological sites</i></p> <p>If during construction works or earthworks the Contractor discovers an object likely to be a historical object, it is obliged to:</p> <ul style="list-style-type: none"> a) stop any work that may damage or destroy the discovered objects and secure, using available means, this object and the discovery site, b) immediately notify the Provincial Conservator of Monuments, and if this is not possible, the territorially competent municipality leader or mayor. The Contractor shall also notify the Engineer in this respect, c) the Contractor's team of expert archaeologists shall be notified immediately, d) enable and ensure the performance of documentation activities, archaeological research and other necessary actions indicated by the team of archaeological experts of the Contractor and/or administrative bodies responsible for securing objects and other monumental substance, 	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	e) in the case of immovable monuments, after the completion of the activities described in point d., the guidelines and other activities specified by the team of archaeologists / or administrative bodies responsible for securing the objects and other monumental substance should be implemented.	
72.	<p><i>Obtaining permission from the Provincial Conservator of Monuments</i></p> <p>In order to implement the provisions of the EMP related to protection of cultural heritage and monuments (items 70, 71 of Appendix 1 to the EMP), the Contractor, if necessary, will also obtain, on the basis of a power of attorney granted by the Employer, permission from the Provincial Conservator of Monuments (WKZ/PCM) to conduct archaeological rescue research</p>	The measure has been implemented and completed
73.	<p><i>Appropriate storage of building materials</i></p> <p>Materials used for construction work should be stored in a way that protects them from damage and does not endanger the safety of the environment, people and property.</p>	The measure has been implemented and completed
74.	<p><i>Ensuring safety conditions during the works</i></p> <p>Machinery, appliances and other equipment must be operated in such a way as not to endanger the safety of the environment for people and property, and to preclude the possibility of the machinery and equipment overturning, sliding or rolling over.</p>	The measure has been implemented and completed
75.	<p><i>Ensuring human health and safety, including fire protection</i></p> <p>The contractor will develop the HASP plan, obtain the approval of its contents by the Engineer, and then carry out the works according to the provisions of the HASP plan.</p> <p>The fire protection requirements included in the HASP should also include a ban on burning fires and burning flammable materials within the Task area.</p>	The measure has been implemented and completed
76.	<p><i>Development of documents related to the security of people, property and environment in the area of Task implementation</i></p> <p>a) Due to the risk of flooding, the Contractor will develop and submit for the Engineer's approval a document entitled: Flood protection plan for the construction site, which will take into account the</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<p>local hydrological and meteorological conditions around the construction site. In case of flood, the Contractor will act in accordance with the procedures described in the above-mentioned document.</p> <p>b) The Contractor will develop and submit for the Engineer's approval a document entitled: A project for the organisation of the construction site, which will include such elements as: location of the construction site, development of the construction site, securing the construction site, technological roads, environmental protection at the construction site,</p> <p>c) The Contractor will develop and submit for the Engineer's approval a document entitled: Quality assurance plan, which should include, among others, the following elements: works performance organisation, organisation of traffic at the site together with marking of works, OH&S and environment protection, list of working teams, scope of duties of the key personnel, quality control, laboratory tests.</p> <p>d) The Contractor will develop and submit for the Engineer's approval a document entitled: Implementation plan and management strategy of Environmental, Social, Health and Safety Risks: which should include, among others, the following elements: description of actions taken for risk management, description of the used materials, equipment, description of management processes, etc., to be implemented by the Contractor and its subcontractors to minimise the risks</p>	
77.	<p><i>Designation and appropriate marking of danger zones</i></p> <p>Within the area of Task implementation, the Contractor is obliged to designate danger zones that pose a threat to human health and life, and mark these zones with warning signs and additionally protect them against unauthorised access.</p>	The measure has been implemented and completed
78.	<p><i>Requirement of proper protection and marking of the work area</i></p> <p>The Contractor is obliged to secure and mark the construction site. The Contractor's Health and Safety experts shall be responsible for ensuring that the construction site is properly marked in accordance with applicable law. The marking shall be checked regularly, and in case of damage or theft of the marking, the Contractor shall immediately reconstruct or supplement it.</p>	The measure has been implemented and completed
79.	<p><i>Ensuring adequate visibility conditions</i></p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<p>In case of necessity to carry out works after dark and in conditions of limited visibility, the Contractor will provide lighting sources allowing to obtain appropriate light intensity for working conditions.</p> <p>The Contractor shall ensure constant conditions of day and night visibility of safety elements and marking of the construction site - barriers and signs, for which it is indispensable for safety reasons.</p>	
80.	<p><i>Documentation of technical condition of the buildings exposed to vibrations.</i></p> <p>Prior to commencing the works, during which vibrations may occur that threaten the surrounding residents and nearby buildings and infrastructure facilities, the Contractor shall carry out an inventory of existing buildings and facilities, with particular emphasis on cracks and damage.</p>	The measure has been implemented and completed
81.	<p><i>Guidelines on HIV – AIDS prevention</i></p> <p>The Contractor, through an approved service provider, will conduct training and implement an HIV-AIDS awareness program and take all other measures to reduce the risk of HIV transmission between and among the Contractor's staff and the local community.</p> <p>These actions should be performed in accordance with the conditions specified in the Contract Bidding Documentation (Part General Conditions, clause 6.7).</p>	The measure has been implemented and completed
82.	<p><i>Sapper supervision in the Task implementation area</i></p> <p>In order to minimise the risk associated with the possibility of hazardous items of military origin occurring in the Task area, the Contractor shall provide:</p> <ul style="list-style-type: none"> a) before the commencement of the works - carrying out the reconnaissance of the Task implementation areas in terms of the presence of unexploded ordnance (the report with the results of the above-mentioned shovel reconnaissance should be submitted to the Engineer), b) in the course of earthworks - sapper's supervision over the works (carried out by the team of sapper's supervision of the Contractor), consisting in current checking and clearing the area of the Task from dangerous objects of military origin together with their disposal; c) in case of finding dangerous objects of military origin within the Task implementation area - implementation of procedures described in item 83 of Appendix 1 to the EMP. 	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
83.	<p><i>Guidelines for handling unexploded ordnance or live bombs</i></p> <p>In case of finding unexploded ordnance or live bombs, it is necessary to:</p> <ul style="list-style-type: none"> a) stop working immediately, b) evacuate persons and equipment from the area around the find and protect against unauthorised access, c) immediately notify the sapper supervisor and the Police and follow their instructions, d) notify the Engineer and the Employer, e) unexploded ordnance or live bombs found must not be categorically lifted, dug up, buried, transferred, thrown into fire or water, etc. 	The measure has been implemented and completed
84.	<p><i>Ensuring the team of expert archaeologists</i></p> <p>Throughout the whole period of the Task implementation, the Contractor will ensure the participation of a team of expert archaeologists. The experts will be involved in execution of selected mitigating measures specified in the EMP (specifically the measures described in item 70, 71, 72 of Appendix 1 of EMP). Members of the team of expert archaeologists must have an appropriate license. The Engineer's approval is required for personal composition of the team of expert archaeologists.</p> <p>Before the commencement of works, the Contractor shall present for the Engineer's approval the <i>Quality assurance plan</i> in scope of activities of the team of expert archaeologists.</p>	The measure has been implemented and completed
85.	<p><i>Providing a team of OH&S experts</i></p> <p>Throughout the whole Task implementation period the Contractor shall ensure the participation of OH&S experts. The experts will be involved in on-going supervision, implementation and control of compliance with OH&S regulations and rules. Members of the team of OH&S experts must have an appropriate license. The Engineer's approval is required for personal composition of the team of OH&S experts.</p> <p>Before the commencement of works, the Contractor shall present for the Engineer's approval the <i>Quality assurance plan</i> in scope of activities of the team of OH&S experts.</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
86.	<p><i>Ensuring the sapper's supervision team</i></p> <p>Throughout the entire Task implementation period, the Contractor shall ensure the participation of the sapper's supervision team. The team will be involved in execution of selected mitigating measures specified in the EMP (specifically the measures described in item 82, 83 of Appendix 1 of EMP). Experts of the sapper's supervision team must possess appropriate licenses. The personnel composition of the sapper's supervision team requires the Engineer's approval.</p> <p>Before the commencement of works, the Contractor shall present for the Engineer's approval the <i>Quality assurance plan</i> in scope of activities of the experts of the sapper's supervision team.</p>	The measure has been implemented and completed
87.	<p><i>Nature supervision during performance of works</i></p> <p>Works shall be conducted under the supervision of the Contractor's team of nature experts:</p> <ul style="list-style-type: none"> a) the Contractor's team of nature experts shall include the following experts: phytosociologist, ichthyologist, herpetologist, entomologist, chiropterologist, ornithologist and theriologist; b) the Engineer's approval is required for personal composition of the team of nature experts, the acceptance condition is to demonstrate appropriate knowledge and experience of a given expert: supervision will be performed by specialists having higher education in the field of biology, forestry, environmental protection and having in their professional experience at least two nature supervision procedures for investments in scope of, respectively, ornithology/botany/herpetology, etc. c) the correct performance of measures mitigating the Task's negative environmental impact shall be pursued by the Contractor's team of nature experts within the whole Task implementation period; d) each day of Task implementation, at least one expert of the environmental team shall perform inspection of the entire Task site and of compliance of works being performed with the conditions of the environmental decision for the Task. 	The measure has been implemented and completed
88.	<p><i>Reports of the Contractor's team of nature experts</i></p> <p>The Contractor's team of nature experts conducts reporting including:</p>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<ul style="list-style-type: none"> a) preparing periodic reports (monthly, quarterly and final report) on the implementation of the conditions specified in the EMP; b) monthly reports will be submitted in the form of a checklist with the necessary attachments, including reports on the implementation of environmental supervision; c) preparation of reports from nature supervision conducted, which should be submitted to a body supervising the Natura 2000 site at the date until the last day of each calendar quarter. The last report on implementation monitoring should be prepared within 3 months from the date of completion of the Task. The Contractor submits a report to the Engineer 21 days in advance in relation to the date of report submission to RDOŚ in Wrocław; d) report on the monitoring of fish prepared according to the conditions described in Appendix no. 2 to EMP, item 92; e) the above-mentioned reports shall be submitted to and require the approval of the Engineer. 	
89.	<p><i>Appointment of the EMP coordinator in the Contractor's team</i></p> <p>A person shall be appointed in the Contractor's team coordinating and supervising the measures related to EMP implementation.</p> <p>The responsibilities of such person shall be, in particular:</p> <ul style="list-style-type: none"> a) supervision over the implementation of particular conditions of the EMP in subsequent stages of the Task implementation; b) ongoing monitoring of the state of implementation of particular conditions from Appendixes 1 and 2 of the EMP in the area of Task implementation; c) informing the management of the Contractor's team on a current basis about the obligations resulting from the EMP at a given stage of works, as well as about problems in the implementation of the EMP; d) cooperation with the remaining part of the Contractor's team (including the team of nature experts, the team of expert archaeologists of the Contractor, the team of the Contractor's sapper supervisors, specialists for health and safety at work supervision) in order to ensure proper implementation of the EMP; 	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	<p>e) implementation of the EMP;</p> <p>f) cooperation with persons responsible for the implementation of the EMP in the Engineer's and Employer's team;</p> <p>The person appointed to perform the aforementioned function requires the Engineer's approval.</p>	
90.	<p><i>Training of the Contractor's staff for EMP implementation</i></p> <p>The Contractor is responsible for providing training (completed with a test verifying the knowledge of participants) within EMP rules and conditions and protective indications at the time of construction for its managing personnel and engineering-technical personnel supervising the construction works, which must be prepared with the help of the Contractor's team of nature experts. Employees of the Contractor who will deal with fuels and other oil-derivative and other substances harmful to health and the environment should be trained in the principles of protection of the soil and water environment and the use of measures to protect it, including the use of sorbents.</p> <p>In monthly reports submitted to the Engineer, the Contractor will provide information on the state of training of the Contractor's personnel in the conditions of the EMP in the current reporting period.</p>	The measure has been implemented and completed
91.	<p><i>Discussing the EMP implementation during working meetings and at Site Councils</i></p> <p>During the implementation of the tasks arising from the EMP, monthly team meetings of PIO, Engineer and Contractor will take place, to discuss and monitor the implementation of mitigation and monitoring measures.</p> <p>Regardless of the above, the current requirements and problems related to the implementation of the EMP will be discussed during Site Councils .</p>	The measure has been implemented and completed
92.	<p><i>Execution of water facilities</i></p> <p>The works contractor shall execute the water facilities in accordance with the technical documentation and the water permit decision.</p>	The measure has been implemented and completed
93.	<i>Maintenance of water facilities in appropriate technical condition</i>	The measure has been implemented and completed

Item	Mitigation measure listed under Appx. 1 to the EMP	Implementation status in reporting period
	The Employer shall undertake activities to maintain the water facilities implemented under this Works Contract in appropriate technical condition, in particular by performing periodic inspections of their technical condition and maintenance works.	

Part II. Checklist for implementation of the monitoring measures listed in Appendix 2 to the EMP for Contract 1B.7

Item	Monitoring measure acc. to Appendix 2 to the EMP (items 1 – 94 in Appendix)	Implementation status in reporting period
1-94	<p>Monitoring of implementation of the mitigation measures in Appendix 1 to the EMP</p> <p>The subject of monitoring in accordance with the descriptions given in items 1-94 in Appendix 2 of the EMP.</p> <p>The place of monitoring in accordance with the descriptions given in items 1-94 in Appendix 2 of the EMP.</p> <p>The method of monitoring in accordance with the descriptions given in items 1-94 in Appendix 2 of the EMP.</p> <p>The time and intervals of monitoring in accordance with the descriptions given in items 1-94 in Appendix 2 of the EMP.</p> <p>Monitoring unit: Engineer and Contractor (in accordance with the descriptions given in items 1-94 in Appendix 2 of the EMP).</p>	<p>Implemented and completed.</p> <p>Monitoring of the measures was started from the day the Contract was signed,</p> <p>Subsequent measures were executed according to the progress of the works.</p> <p>Monitoring was conducted until the end of the reporting period. No problems were identified with the implementation of the monitoring measures.</p>

Part III. Quantitative list of implementation of the measures listed in Appendix 1 and 2 to the EMP for Contract 1B.7

Category	Mitigation measures (items nos. 1 - 93 in Appendix 1 of EMP)		Monitoring measures (items nos. 1-94 in Appendix 2 of EMP)	
	quantity	item no.	quantity	item no.
Measures implemented and completed in the reporting period	93	1-93	94	1-94
Measures not implemented (no need)	0	-	0	-

Appendix 2

Photographic documentation



Phot.1. Roots of oak trees at natural site no. 28 secured from drying out, after topsoil removal – Task 1



Phot.2. Arboricultural works in the avenue of oaks no. 28 – Task 1



Phot.3. Bypasses of oak tree roots constructed using sheet pile walls at natural site no. 28 – Task 1



Phot.4. Drainage along the constructed flood protection embankment in the first implementation section, along avenue of oaks no. 28 – Task 1



Phot.5. Construction of caps at avenue of oaks no. 28 – Task 1



Phot.6. Avenue of oaks no. 28, essential topsoiling treatment at the oak tree, protecting the root necks – Task



**Phot.7. Water pumping from desludged section of the Widawa
upstream of the bridge at Rieczna Street – Task 1**



Phot.8. Regulation works at the Widawa, upstream of the bridge at Rieczna Street – Task 1



Phot.9. Caught and relocated mussels – Task 1



Phot.10. Caught and relocated fish, mussels and Spinycheek Crayfish from the desludged section of the Widawa – Task 1



Phot. 11. Removal of Japanese Knotweed *Reynoutria japonica* – Task 1



Phot. 12. Reconstruction of the D4 road in the Park in Śliwice – Task 1



Phot.13. Hanging bat box - English model, nature site no. 28 - oak trees between Wilczyce and Kielczów - Task 1



Phot.14. Hanging two sawdust concrete bat boxes under the bridge over the River Widawa in along Rieczna Street - Task 1



Phot.15. Preserved R-27 ditch with willows and alders – Task 2



Phot.16. Birch tree colliding with the execution of paving at R-K 9 ditch.

Topsoil removal to the trunk of the tree would involve loss of stability in front of the tree and its slow death. The tree was preserved. The uncovered roots were covered with textile (visible in the photo) for the duration of slope profiling to prevent them from drying out. Reduced scope of revetments – Task 2



Phot. 17. Reconstruction of R-K-8 ditch to the point where Yellowhammer was found and trees were preserved – Task 2



**Phot. 18. Pedunculate Oak with no. 459c at natural site no. 2
– Forest south of Swojczyce after felling, inhabited by Great Capricorn Beetle – Task 3**



Phot. 19. Pedunculate Oak with no. 459b while felling, inhabited by Common Noctules and Hermit Beetle – Task 3



Phot. 20. Removal of bats from branch of felled oak tree – Task 3



Phot. 21. Common Noctules transported to the Zoological Institute – Task 3



Phot. 22. Feeding of Common Noctules – Task 3



Phot. 23. Feeding glucose to Common Noctules – Task 3



Phot. 24. Hermit Beetle larvae – Task 3



**Phot. 25. Placement of Hermit Beetle larvae in a hollow – replacement habitat
– Task 3**



**Phot. 26. Chiropterological inspection of decayed places and hollows in felled trees, at natural site no. 7 –
Task 3**



Phot. 27. Entomological inspection of decayed places and hollows in felled trees, at natural site no. 7 – Task 3



Phot.28. Searching the decayed place in a felled pedunculate oak with inventory number 716 to remove beetle larvae – Task 3



Phot.29. Larvae of Hermit Beetle *Osmoderma eramita* from the decayed place in a felled pedunculate oak with inventory number 716 – Task 3



Phot. 30. Constructed new bed of the Młynówka Kielczowska – Task 3



Phot.31. Caught and relocated fish from liquidated section of Młynówka Kielczowska – Task 3



Phot.32. Removal of the old, estuary section of the Młynówka Kielczowska bed – Task 3



Phot.33. New bed of the Młynówka Kielczowska – Task 3



Phot.34. Weatherfish *Misgurnus fossilis* and Tench *Tinca tinca* caught from a desludged section of the Mrówka – Task 3



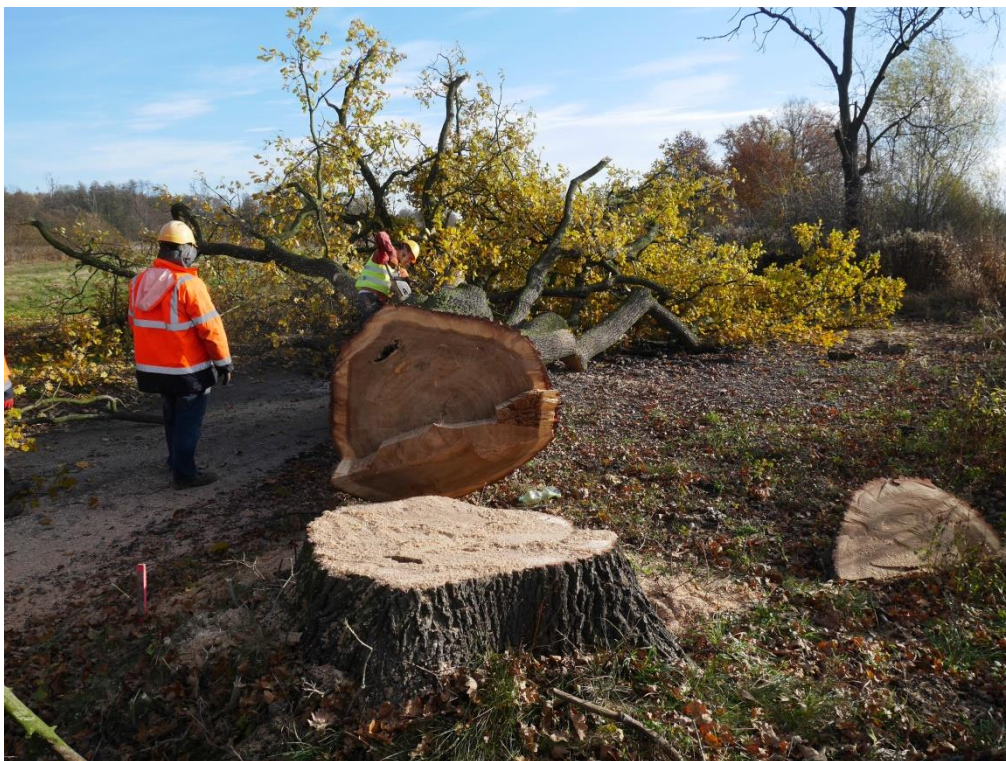
Phot.35. Top layer of alluvion stretched along the Mrówka to allow it to be searched for presence of animals – Task 3



Phot.36. Felling of oak trees between Wilczyce and Kielczów, along Wilczycka Street (tree no. 821 inhabited by Capricorn beetle *Cerambyx cerdo*) – Task 4



Phot.37. Felling of oak trees between Wilczyce and Kielczów, along Wilczycka Street (tree no. 815 inhabited by Capricorn beetle *Cerambyx cerdo*) – Task 4



Phot. 38. Felling of oak tree no. 2279 inhabited by Capricorn beetle *Cerambyx cerdo* at natural site no. 20 – Task 4



Phot. 39. Culvert PW9 regularly monitored by a herpetologist during the migration period of amphibians – trapped amphibians were removed from the culvert and relocated outside the Construction Site, Task 4



Phot. 40. Green frogs in culvert PW9, taken out by herpetologist during daily inspections over the migration period of amphibians – Task 4



Phot.41. Culvert PW8 regularly monitored by a herpetologist during the migration period of amphibians – trapped amphibians were removed from the culvert and relocated outside the Construction Site, Task 4



Phot.42. Complex of green frogs caught from the culvert PW8 – Task 4



Phot.43. Herpetological fence around the construction in September 2020 – Task 4



Phot.44. Desludging of the ditch R-G, carried out under nature supervision – Task 4



Phot.45. Młynówka Kielczowska, habitat of Thick Shelled River Mussel *Unio crassus* – Task 4



Phot.46. Thick Shelled River Mussel *Unio crassus* observed at the culvert PW8 – Task 4



**Phot.47. Hanging box for Grey Wagtail *Motacilla cinerea* under the caps of the structure
PD8 – Task 4**



**Phot.48. Hanging bat boxes – Issel model and Stratmann model,
European Ash preserved at culvert PW8 in Kielczówek – Task 4**



Phot.49. Removal of Sosnowsky's hogweed from the investment area – Task 5



Phot. 50. Compensation reservoirs for amphibians – Task 5



Phot. 51. Topsoiling of flood protection embankments – Task 5